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**ABSTRACT**

This report is a compilation of educational materials that are available in the field of diagnostic medical ultrasound. Materials, which include publications, audiovisual aids, and teaching aids, are listed under the following categories: abdominal imaging; anatomy and physiology; anatomy and embryology; bioeffects; cardiology and vasculature; computer science and mathematics; diagnostic ultrasound; multi-mode imaging; obstetrics and gynecology; ophthalmic imaging; pediatric imaging; physics; quality assurance; and references. Each entry includes title, date of publication, and cost. In addition, most entries contain a brief annotation. A list of miscellaneous publications and a directory of sources with names and addresses of publishers, manufacturers, and producers of the materials are included. The compilation is intended for use by federal, state, and local radiological health personnel, professional societies with an interest in ultrasound, and directors of schools of ultrasound. (JN)

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# Source Book of Educational Materials for Diagnostic Medical Ultrasound

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
Public Health Service  
Food and Drug Administration

## NCDRH PUBLICATIONS - RADIOLOGICAL HEALTH

Publications of the National Center for Devices and Radiological Health (NCDRH) are available as paper copies from either the U.S. Government Printing Office (GPO) or the National Technical Information Service as indicated by the GPO or PB prefix, respectively, on the ordering number. Publications are also available in microfiche from NTIS at \$4.50 per copy. To receive all NCDRH reports in microfiche, at \$1.00 each, you may establish a deposit account with NTIS and request automatic distribution of "FDA/HFZ" reports under the "Selected Research in Microfiche" program. Those publications without GPO or PB numbers are available only from National Center for Devices and Radiological Health.

Addresses for ordering are: Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402; National Technical Information Service, Springfield, VA 22161 (outside North America, prices are double those listed); and National Center for Devices and Radiological Health, Food and Drug Administration (HFZ-28), 5600 Fishers Lane, Rockville, MD 20857. All prices are subject to change.

- FDA 81-8151 A Feasibility Study of the Biological Effects of Fallout on People in Utah, Nevada, and Arizona (PB 81-187692, \$7.00).
- FDA 81-8152 Annual Report of the Division of Biological Effects, Bureau of Radiological Health - Fiscal Year 1979 (PB 81-187155, \$13.00).
- FDA 81-8153 An Evaluation of Radiation Emission from Video Display Terminals (PB 81-198483, \$10.00).
- FDA 81-8155 A Practitioner's Guide to the Diagnostic X-Ray Equipment Standard (GPO 017-015-00185-7, \$2.50).
- FDA 81-8156 Symposium on Biological Effects and Measurement of Light Sources (GPO 017-015-00191-1, \$7.50) (PB 81-214223, mf only).
- FDA 81-8157 An Intercomparison of Nuclear Medicine, Ultrasonography, and Computed Tomography in the Diagnosis of Liver Disease: A Retrospective Study (PB 81-199044, \$8.50).
- FDA 81-8158 Background Material for the Development of the Food and Drug Administration's Recommendations on Thyroid-Blocking with Potassium Iodide (PB 81-205361, \$8.50).
- FDA 81-8161 BRH Routine Compliance Testing for Diagnostic X-Ray Systems (PB 81-201501, \$17.50).
- FDA 81-8162 Handbook of Computed Tomography - X-Ray Spectra (PB 81-295890, \$13.00).
- FDA 81-8163 Airborne Ultrasound: Measurement and Possible Adverse Effects (GPO 017-015-00193-8, \$3.00) (PB 81-240459, mf only).
- FDA 81-8164 Calculation Programs for Routine Compliance Testing of Diagnostic X-Ray Systems (PB 81-200503, \$10.00).
- FDA 81-8166 Third International Radiopharmaceutical Dosimetry Symposium (October 1980) (GPO 017-015-00194-6, \$12.00) (PB 81-233090, mf only).
- FDA 81-8169 Pilot Study of Social Security Administration Disability Claims (SSADC), by Selected Diagnosis and Qualified Radiation Exposure (PB 81-246761, \$11.50).
- FDA 81-8170 Effects of Ionizing Radiation on the Developing Embryo and Fetus: A Review (GPO 017-015-00198-9, \$6.50) (PB 82-115379, mf only).
- FDA 81-8171 Self-Assessment and Competency Assurance Education in Diagnostic Radiologic Technology: Final Report (September 30, 1977 to April 30, 1980) (PB 81-237448, \$8.50).
- FDA 81-8172 Plain Skull Film Radiography in the Management of Head Trauma: An Overview (PB 82-120130, \$8.50).
- FDA 81-8173 Pre-Employment Low Back X Rays: An Overview (PB 82-122979, \$7.00).
- FDA 81-8174 The Selection of Patients for X-Ray Examinations: The Pelvimetry Examination (brochure).
- FDA 81-8175 Source Book of Educational Materials for Nuclear Medicine (GPO 017-015-00199-7, \$6.50) (PB 82-116153, mf only).
- FDA 81-8176 Administratively Required Dental Radiographs (GPO 017-015-00201-2, \$3.25) (PB 82-117581, mf only).
- FDA 81-8177 Emission Computed Tomography: The Single Photon Approach (GPO 017-015-00200-4, \$8.50).

(Continued on inside back cover)

Source Book  
of  
Educational Materials  
for  
Diagnostic Medical Ultrasound

Compiled by  
Mary Lou Pijar  
Catherine Pascutti  
Office of Training and Assistance



WHO Collaborating Centers for:

- Standardization of Protection Against Nonionizing Radiations
- Training and General Tasks in Radiation Medicine
- Nuclear Medicine



August 1983

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
Public Health Service  
Food and Drug Administration  
National Center for Devices and Radiological Health  
Rockville, Maryland 20857

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## FOREWORD

In October 1982, the Food and Drug Administration established the National Center for Devices and Radiological Health (NCDRH) by merging the Bureau of Medical Devices and the Bureau of Radiological Health.

The Center develops and implements national programs to protect the public health in the fields of medical devices and radiological health. These programs are intended to assure the safety, effectiveness and proper labeling of medical devices, to control unnecessary human exposure to potentially hazardous ionizing and nonionizing radiation, and to ensure the safe, efficacious use of such radiation.

The Center publishes the results of its work in scientific journals and in its own technical reports. These reports provide a mechanism for disseminating results of NCDRH and contractor projects. They are sold by the Government Printing Office and/or the National Technical Information Service.

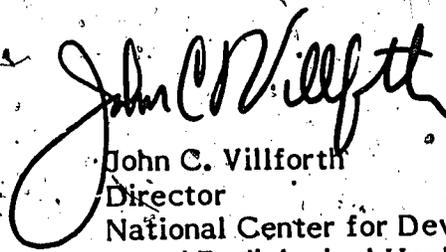
Also, NCDRH technical reports in radiological health are made available to the World Health Organization under a memorandum of agreement between WHO and the Department of Health and Human Services. Three WHO Collaborating Centers, established under the Bureau of Radiological Health, continue to function under NCDRH:

WHO Collaborating Center for Standardization of Protection Against Nonionizing Radiations;

WHO Collaborating Center for Training and General Tasks in Radiation Medicine; and

WHO Collaborating Center for Nuclear Medicine.

We welcome your comments and requests for further information.



John C. Villforth  
Director  
National Center for Devices  
and Radiological Health

## PREFACE

In recent years ultrasound has become important as a medical diagnostic tool. One of the major functions of the National Center for Devices and Radiological Health is to ensure the safe and efficient use of radiation in medical procedures. The Office of Training and Assistance helps meet this goal by the development and distribution of educational materials for students in the health care professions, and by the continuing education of individuals who are already in practice.

In the area of diagnostic medical ultrasound, the Center has recognized the need to identify and systematically categorize the educational materials and teaching aids that may be pertinent to student training and to continuing education, as well. With this in mind the Source Book of Educational Materials for Diagnostic Medical Ultrasound, a compendium of such educational materials, has been developed.

With the exception of those materials produced by NCDRH, the inclusion of educational material in this report should not be construed as endorsement of the technical accuracy or educational efficacy of the material by the Center.



William S. Properzio, Ph.D.  
Acting Director  
Office of Training and Assistance

## ABSTRACT

Pijar, Mary Lou and Catherine Pascuitti. Source Book of Educational Materials for Diagnostic Medical Ultrasound. HHS Publication FDA 83-8210 (August 1983) (65 pp).

This report is a compilation of educational materials that are available in the field of diagnostic medical ultrasound. It contains information on publications, audiovisuals, and teaching aids related to diagnostic medical ultrasound and includes the names and addresses of publishers, producers, and manufacturers of these materials. The report is intended for use by Federal, State, and local radiological health personnel, professional societies with an interest in ultrasound, and directors of schools of ultrasound.

The mention of commercial products, their sources, or their use in connection with material reported herein is not to be construed as either an actual or implied endorsement of such products by the Department of Health and Human Services (HHS), or the World Health Organization (WHO).

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## INTRODUCTION

The Source Book is divided into 15 chapters. Each one corresponds to subject areas included in a compilation of curricula for medical ultrasound technology. Each chapter has a "Publications" section, and some chapters have "Audiovisual" and "Training Aids" sections.

Entries include title, author, producer or publisher, date, ordering number if available, price and, when possible, a brief description. Publishers', producers' and manufacturers' addresses are found in Chapter 15 - Parts A, B, and C. Chapter 15 - Part D lists periodicals of special interest to individuals involved in medical ultrasound. This list of resource materials is not exhaustive but, in the opinion of the compilers, is a representative sample of the material available.

Prices are listed as of July 1982 and are subject to change.

## 1. ABDOMINAL IMAGING

### A. PUBLICATIONS

#### **ABDOMINAL ECHOGRAPHY**

Barnett, E.; Morley, P.  
Butterworths Publishing, Inc., 1974, out of print

This textbook discusses diagnostic ultrasound, as used for abdominal conditions. The basic principles are described, with emphasis on scanning techniques.

#### **ABDOMINAL GRAY SCALE ULTRASONOGRAPHY**

Goldberg, Barry B.  
John Wiley and Sons, Inc., 1977, \$54.00

Contains such chapters as Physics of Gray Scale, Gray Scale Instrumentation, Abdominal Vessels, etc.

#### **ABDOMINAL ULTRASOUND: STATIC AND DYNAMIC SCANNING**

Holm, Hans Henrik; Kristensen, Jorgen Kvist; Rasmussen, Sten Norby  
University Park Press (2nd Ed.), 1981, \$29.50

This new edition is a concise overview for radiologists, surgeons, and radiologic technologists entering the field. It explains the technology, anatomy, diagnostic methods, and various scanning techniques.

#### **ABDOMINAL ULTRASOUND IN THE CANCER PATIENT**

Brascho, Donn J.; Shawker, Thomas H.  
John Wiley and Sons, Inc., 1980, \$52.00

A comprehensive, fully-illustrated reference on the clinical application of ultrasound in the diagnosis and management of abdominal cancer patients for the radiologist, oncologist, and sonographer.

#### **ALIMENTARY TRACT RADIOLOGY, VOL. III: ABDOMINAL IMAGING**

Margulis, Alexander R.; Burhenne, H.; Jaachim (Eds.)  
C.V. Mosby Company, 1979, \$89.50

This volume focuses on contemporary imaging modalities. Internationally known contributors share their experiences and insights with all aspects of computed tomography, ultrasound, and nuclear medicine. Includes more than 1,200 illustrations.

#### **ATLAS OF ABDOMINAL ULTRASONOGRAPHY IN CHILDREN**

Gates, Garry F.  
Churchill Livingstone Inc., 1978, \$27.50

An atlas of ultrasonography directed exclusively to diseases of childhood. The radiologist, pediatrician or surgeon will find this a helpful reference to the clinical applications of abdominal ultrasonography in pediatric disease.

**COMPARATIVE ABDOMINAL AND PELVIC ANATOMY BY COMPUTED TOMOGRAPHY AND ULTRASOUND**

Raskin, Michael, M.  
CRC Press, Inc., 1979, \$74.50

Includes such topics as basic principles of computed tomography and ultrasound and abdominal anatomy and physiology.

**DYNAMIC RADIOLOGY OF THE ABDOMEN**

Meyers, M.A.  
Springer-Verlag, 1976, \$59.00

The main body of this work focuses on an anatomic and dynamic understanding for the radiologic diagnosis of many common and uncommon abdominal diseases.

**FUNDAMENTALS OF ABDOMINAL AND PELVIC ULTRASONOGRAPHY**

Leopold, George R.; Asher, W. Michael  
W.B. Saunders Company, 1982, \$28.00

**FUNDAMENTALS OF ABDOMINAL SONOGRAPHY, A TEACHING APPROACH**

Raymond, Howard W.  
Grune and Stratton, Inc., 1979, \$39.50

Provides a guide to the utilization of sonographic procedures in the overall diagnostic workup, together with an approach to the interpretation of the various types of abdominal sonograms.

**PRACTICAL ABDOMINAL ULTRASOUND**

Metreveli, Constantine  
Year Book Medical Publishers, 1979, \$37.50

This handbook is a painless and practical introduction to the field of diagnostic ultrasound for the beginner in the field. It provides a progressive course in the basic techniques of image making and interpretation, with subjects arranged in order of complexity and clinical demand.

**RADIOLOGY OF THE ABDOMEN: ANATOMIC BASIS**

Whalen, Joseph P.  
Lea and Febiger, 1976, \$29.50

An approach to diagnostic radiology based on sectional anatomy, this book presents sections in adult and pediatric cadavers in horizontal, sagittal, and coronal planes.

**REAL TIME ULTRASOUND IMAGING IN THE ABDOMEN**

Skolnick, M.L.  
Springer-Verlag, 1981, \$38.50

## **ULTRASONOGRAPHY OF THE ABDOMEN**

Hassani, N.

Springer-Verlag, 1976, \$30.00

The text covers the essential principles of ultrasound physics in a straightforward and comprehensive manner.

## **ULTRASOUND OF THE PEDIATRIC ABDOMEN AND PELVIS: A CORRELATIVE IMAGING APPROACH**

Kangerloo, Haoshang, et al.

Year Book Medical Publishers, 1980, \$45.00

Presents a systematic application of ultrasound and other radiographic modalities to the practical understanding and diagnosis of intraabdominal diseases in children.

## **B. AUDIOVISUALS**

### **ABDOMINAL ULTRASOUND: GU**

Maklad, Nabil

American Institute of Ultrasound in Medicine

81-35 mm slides with audio cassette, \$50.00

Ultrasound is clinically useful in evaluating renal masses, solid or cystic, in staging renal carcinoma, and in determining the cause of acute renal failure. Once a pre or post renal cause is diagnosed, ultrasound can be used to perform renal biopsy or for insertion of a percutaneous nephrotomy.

### **MODERN ABDOMINAL ULTRASOUND**

Leopold, George R.

Radiological Society of North America, Inc.

35 mm slides with audio cassette, \$95.00

### **PEDIATRIC B-MODE ULTRASONOGRAPHY: ABDOMINAL AND PELVIC**

Shkolnik, Arnold

Radiological Society of North America, Inc.

35 mm slides with audio cassette, \$95.00

### **PEDIATRIC ULTRASOUND - PT. 1 - ABDOMINAL MASS**

Haller; Friedman

Medcom Products

57 - 35 mm slides with audio cassette, \$90.00

## 2. ANATOMY AND PHYSIOLOGY/EMBRYOLOGY

### A. PUBLICATIONS

#### **ANATOMY COLORING BOOK**

Kapit

Harper and Row Publishers, 1977, \$8.95

#### **ANATOMY AND PHYSIOLOGY**

Miller; Leavell

Macmillan Publishing Co., Inc., (17th Ed.), 1977, \$25.95

#### **ATLAS OF CLINICAL ANATOMY**

Snell, R.S.

Little, Brown and Company, 1978, \$32.50

#### **ATLAS OF CROSS-SECTIONAL ANATOMY: COMPUTER TOMOGRAPHY, ULTRASOUND, RADIOGRAPHY, GROSS ANATOMY**

Kieffer, Stephen A.; Heitzman, Robert E.

Harper and Row Publishers, 1979, \$52.50

This atlas is a correlation of computed tomographic image and ultrasound image with identical anatomic cross-section, allowing exact identification and comparison of key soft tissue and bony structures.

#### **BASIC ATLAS OF CROSS-SECTIONAL ANATOMY: A CLINICAL APPROACH**

Bo; Meschan; Krueger

W.B. Saunders Company, 1980, \$44.00

#### **BASIC CLINICAL PHYSIOLOGY**

Green, J.H.

Oxford University Press, Inc., (3rd Ed.), \$16.50

For students of nursing and allied health professions, this introductory text relates the basic concepts of human physiology to clinical medicine and bridges the gap between pre-clinical and clinical subjects.

#### **BASIC HUMAN PHYSIOLOGY: NORMAL FUNCTION AND MECHANISMS OF DISEASE**

Greyton, Arthur C.

W.B. Saunders Company, (2nd Ed.), 1977, \$22.50

#### **CIBA COLLECTION OF MEDICAL ILLUSTRATIONS**

Netter, Frank H.

CIBA Pharmaceutical Company

Vol. 1 - Nervous System, \$28.50

Vol. 2 - Reproductive system, \$38.00

Vol. 3 - Upper Digestive System, \$31.00

Lower Digestive System, \$33.00

Liver, Biliary, Pancreas, \$29.00

- Vol. 4 - Endocrine System, \$38.00  
Vol. 5 - Heart, \$46.00  
Vol. 6 - Kidney, \$47.00  
Vol. 7 - Respiratory System, \$49.00  
Entire set of 9 books, \$325.00

**CLINICAL ANATOMY FOR MEDICAL STUDENTS**

Snell, R.S.

Little, Brown and Company, (2nd Ed.), 1981, \$28.95

**CLINICALLY ORIENTED ANATOMY**

Moore, Keith

Williams and Wilkins Company, 1980, \$34.50

This illustrated text covers the thorax, abdomen, perineum and pelvis, lower limb, back, upper limb, head, cranial nerves, and neck.

**COLOR ATLAS OF HUMAN ANATOMY**

McMinn, R.M.H.; Hutchings, R.T.

Year Book Medical Publishers, 1977, \$34.95

**COLOR ATLAS OF SECTIONAL ANATOMY: CHEST, ABDOMEN, AND PELVIS**

Lyons, Edward A.

C.V. Mosley Company, 1978, out of print

This atlas represents a complete set of sections 1 cm. thick, and includes sagittal, transverse, and coronal sections of the neck, chest, abdomen, and pelvis as well as oblique views of the heart.

**CROSS SECTIONAL ANATOMY: AN ATLAS FOR COMPUTED TOMOGRAPHY**

Ledley, Robert Steven et al.

Williams and Wilkins Company, 1977, \$19.95

**CROSS-SECTIONAL ANATOMY: COMPUTED TOMOGRAPHY AND  
ULTRASOUND CORRELATION**

Carter, Barbara L.

Appleton-Century-Crofts, 1977, \$50.00

Presents the normal anatomy of each section as displayed on a CT scan, a gray-scale sonogram, and a radiograph of the cadaver slice. Contained also are anatomical drawings and additional views where variations of normal anatomy are common.

**DEVELOPING HUMAN: CLINICALLY ORIENTED EMBRYOLOGY**

Moore, K.L.

W.B. Saunders Company, (2nd Ed.), 1977, \$13.95

This illustrated text presents a concise account of normal and abnormal human development, indicating the relevance of embryology to medicine and human biology.

### **GRANT'S ATLAS OF ANATOMY**

Anderson, J.E.

Williams and Wilkins Company, (7th Ed.), 1978, \$34.50

This latest edition follows the normal sequence of dissection and the illustrations include radiographs and arteriograms.

### **GRAY'S ANATOMY OF THE HUMAN BODY**

Goss, Charles Mayo

Lea and Febiger, (29th Ed.), 1973, \$32.50

Anatomy text that has been used in American schools for more than one hundred years.

### **GROSS ANATOMY DISSECTOR**

Snell, R.S.

Little, Brown and Company, 1978, \$12.95

The complement to Snell's Atlas of Clinical Anatomy, this dissecting manual is organized regionally, proceeding from the surface to progressively deeper structures.

### **HUMAN ANATOMY AND PHYSIOLOGY**

Hale, John W., Jr.

Wm. C. Brown Company Publishers, 1981, \$26.95

Translates classroom theory into professional practice for health science career students. Approach concentrates on the structure and function of the human body.

### **JOHNS HOPKINS ATLAS OF HUMAN FUNCTIONAL ANATOMY**

Schlossberg, Leon; Zuidema, George

Johns-Hopkins University Press, (2nd Ed.), 1980, \$10.95 paper, \$17.50 cloth

A guide to understanding the workings of the human body, its organs and systems. Contains 178 color illustrations.

### **SECTIONAL ANATOMY AND TOMOGRAPHY OF THE HEAD**

Potter, Guy D.

Grune and Stratton, Inc., 1971, \$94.00

### **STRUCTURE AND FUNCTION IN MAN**

Jacob; Francone; Lassow

W.B. Saunders Company, (4th Ed.), 1978, \$16.95

Designed for the beginning student. Physiology is stressed with emphasis on anatomy.

**TEXTBOOK OF MEDICAL PHYSIOLOGY**

Guyton, Arthur C.

W.B. Saunders Company, 1981, \$37.50

Basic physiology plus medical applications are presented in a style the student and practitioner can readily understand.

### 3. BIOEFFECTS

#### A. PUBLICATIONS

##### **AIRBORNE ULTRASOUND: MEASUREMENTS AND POSSIBLE ADVERSE EFFECTS**

Bureau of Radiological Health  
National Technical Information Service  
PB 81/240/459, 1981, \$7.00

##### **BIOLOGICAL EFFECTS OF ULTRASOUND**

Bureau of Radiological Health  
Chapter in Obstetrical Technology  
Young, D. (Ed.)  
Haworth Press, 1982, \$24.95

##### **BIOMEDICAL ULTRASONICS**

Wells, P.N.T.  
Academic Press, 1977, \$99.50

##### **INTERACTION OF ULTRASOUND AND BIOLOGICAL TISSUES: PROCEEDINGS OF A CONFERENCE**

Bureau of Radiological Health  
National Technical Information Service, PB 220-143/AS, 1973, \$25.50

Proceedings on the Workshop on the Interaction of Ultrasound and Biological Tissues. Proceedings examine the current state of knowledge in the field of ultrasound and define areas in which further work needs to be done. It is hoped that it will provide direct stimulus to the scientific community.

##### **OVERVIEW OF ULTRASOUND: THEORY, MEASUREMENT, MEDICAL APPLICATIONS, AND BIOLOGICAL EFFECTS**

Bureau of Radiological Health  
Superintendent of Documents, U.S. Government Printing Office  
No. 017-01500206-3, 1982, \$6.00

This report will be of benefit to those who work in the field of ultrasound; the manufacturers of instrumentation; the health professionals who have developed the many valuable applications of this modality; and the scientists who continue to improve our understanding of the interactions and mechanisms of ultrasound with biological tissue.

##### **PHYSICAL MECHANISMS FOR BIOLOGICAL EFFECTS OF ULTRASOUND**

Bureau of Radiological Health  
National Technical Information Service, PB 282-234/AS, 1978, \$9.00

In this report, available information on the principles or mechanisms by which ultrasound produces changes in living systems is reviewed. A brief summary of the data on the effects of ultrasound on mammalian tissues is also present.

**SYMPOSIUM ON BIOLOGICAL EFFECTS AND CHARACTERIZATIONS OF  
ULTRASOUND SOURCES**

Bureau of Radiological Health  
National Technical Information Service, PB 277-945/AS, 1978, \$21.00

This is a compilation of papers presented at this Symposium. The Symposium was to provide a forum for scientific exchange and to provide for extramurally supported investigators to meet firsthand with the total Bureau of Radiological Health professional staff and exchange information.

**WHO ENVIRONMENTAL HEALTH CRITERIA DOCUMENT FOR  
ULTRASONIC RADIATION**

Bureau of Radiological Health  
World Health Organization, 1982, Contact WHO for details

Provides some general information about physical characteristics of ultrasound and measurement methods, discusses some of the applications of ultrasound in the medical and non-medical fields, reviews the reported effects of ultrasound on exposed biological systems, and outlines safe use guidelines as far as possible within the present state of knowledge.

## 4. CARDIOLOGY/VASCULATURE

### A. PUBLICATIONS

#### **ADVANCES IN NON-INVASIVE DIAGNOSTIC CARDIOLOGY**

Kingsley; Benedict  
Charles B. Slack, Inc., 1976, \$40.00

Text covers diagnosis of heart disease, phonocardiography, ultrasonic cardiography, and heart function tests.

#### **ATLAS OF PEDIATRIC ECHOCARDIOGRAPHY**

Gutgesell, Howard P.; Paquet, Marc  
Harper and Row Publishers, 1978, \$25.00

This text expresses the feeling that echocardiography is a "visual art." It combines in one volume a collection of echocardiograms representing normal echocardiographic anatomy as well as a variety of cardiac disorders in children.

#### **ATLAS OF PEDIATRIC TWO-DIMENSIONAL ECHOCARDIOGRAPHY**

Duncan, Walter J.  
Charles C. Thomas, Publisher, 1981, \$19.75

#### **CARDIAC ULTRASOUND**

Gramiak, Raymond; Waag, Robert C.  
C.V. Mosely Company, 1975, out of print

This volume explores the current state-of-the-art of ultrasonic examination of the heart.

#### **CARDIAC ULTRASOUND WORKBOOK**

Talano, James  
Grune and Stratton, Inc., 1982, \$19.50

This book describes the application and techniques of T-M mode and two dimensional echocardiography with text and illustrations.

#### **CARDIOLOGY: A CLINICAL APPROACH**

Vanden Belt, Ron J.; Ronah, J., Jr.; Bedynek, J., Jr.  
Year Book Medical Publishers, 1979, \$28.95

The fundamentals of clinical cardiology - covering history taking, physical examination, physiology, pathology and laboratory testing.

#### **CARDIOLOGY FOR NURSES**

Hurst, Willis J.; Wenger, Nanette K.; McIntyre, Mildred C.  
McGraw-Hill Book Company, 1980, \$33.95

## **CASE STUDIES IN ECHOCARDIOGRAPHY: A DIAGNOSTIC WORKBOOK**

Clark, Ralph D.

W.B. Saunders Company, 1977, \$22.00

This workbook teaches proper interpretation of M-mode echocardiography in adults. The importance of learning the numerous echopatterns seen in cardiac disease and the need to make accurate measurements and calculations from the echo is emphasized.

## **CEREBROVASCULAR EVALUATION WITH DOPPLER ULTRASOUND**

Spencer, Merrill P.; Reid, John M.

Kluver Boston, Inc., 1980, \$44.50

## **CLINICAL ECHOCARDIOGRAPHY**

Kotler, Morris N.; Segal, Bernard L.

F.A. Davis Company, 1978, \$35.00

This text provides detailed information on the training of physicians and technicians in echocardiography, as well as the correlation with electrocardiography and heart sounds and murmurs.

## **CLINICAL ECHOCARDIOGRAPHY**

Nanda, Navin C.; Gramiak, Raymond

C.V. Mosby Company, 1978, \$49.50

This text on clinical echocardiography reviews structures in the beam, describes normal tracing, and presents technical comments. Discussions explore pitfalls in echocardiographic assessment with emphasis on improper technique and misinterpretation of echocardiographic findings.

## **CROSS-SECTIONAL ECHOCARDIOGRAPHY**

Weyman, Arthur E.

Lea and Febiger, 1982, \$48.50

This book presents a comprehensive review of the historical development, physical principles, techniques and clinical applications of cross-sectional echocardiography.

## **DEDUCTIVE ECHOCARDIOGRAPHY CASE STUDIES**

Kra; Schwartz

Medical Examination Publishing Co., Inc., 1981, \$20.50

## **DIAGNOSTIC METHODS IN CARDIOLOGY**

Fowler, Noble. O. (Ed.)

F.A. Davis Company, 1975, \$35.00

**DOPPLER ULTRASOUND IN CARDIOLOGY: PHYSICAL PRINCIPLES AND CLINICAL APPLICATIONS.**

Hatte, Liv; Angelsen, Bjorn  
Lea and Febiger, 1982, \$27.00

This text covers the physics of blood flow, principles of ultrasonic Doppler techniques, clinical application in cardiac diagnosis, aortic flow velocity and cardiac output, and a review of methods of spectral analysis useful for Doppler signal analysis.

**ECHOCARDIOGRAPHIC DIAGNOSIS OF CONGENITAL HEART DISEASE**

Williams, Roberta; Tucker, Charles  
Little, Brown and Company, 1977, \$28.50

**ECHOCARDIOGRAPHIC INTERPRETATION**

Abbasi, Abdul S.  
Charles C. Thomas, Publisher, 1981, \$49.75

**ECHOCARDIOGRAPHY**

Fiegenbarum, Harvey  
Lea and Febiger, (3rd Ed.), 1981, \$35.00

Instrumentation, technical aspects of application, and future trends of echocardiography, an integral part of clinical cardiology, are thoroughly discussed.

**ECHOCARDIOGRAPHY IN CONGENITAL HEART DISEASE**

Rune-Lundstrom, Nils (Ed.)  
Lippincott/Harper, 1979, \$30.00

This book covers instrumentation, examination, problems in interpretation, and variations in echocardiographic techniques. Particular sites of the heart and their related abnormalities, including techniques for each site, are discussed.

**ECHOCARDIOGRAPHY: INTERPRETATION AND DIAGNOSIS**

Kleid, Jack; Arvan, Stephan B.  
Appleton-Century-Crofts, 1978, \$39.50

Text encompasses every aspect of cardiovascular disease traceable through ultrasound techniques.

**ECHOCARDIOGRAPHY: A TEACHING ATLAS**

Felner, Joel M.; Achlant, Robert C.  
Grune and Stratton, Inc., 1977, \$59.50

This work is intended as a teaching atlas for novices, and as a compilation of echocardiograms with pertinent descriptions and references for the accomplished cardiologist.

## **ECHOCARDIOGRAPHY: TECHNIQUES AND INTERPRETATION**

Chang, Sonia

Lea and Febiger, (2nd Ed.), 1981, \$22.50

This text is directed toward important clinical findings, correct recording techniques, pitfalls and interpretation of the echographic patterns of motion - all supported by invasive procedures, catheterization, surgery, and necropsy.

## **ESSENTIALS OF ECHOCARDIOGRAPHY**

Termini, Benedict; Lee, Yu-Chen

Medical Economics Company, 1976, \$20.00

## **HEART**

Hurst, J. Willis (Ed.)

McGraw-Hill Book Company, (5th Ed.), 1981, One Vol. \$70.00, Two Vol. \$82.00

Revised edition contains the most current, accurate, and useful information available in cardiovascular medicine.

## **HEART AND CORONARY ARTERIES: AN ANATOMICAL ATLAS**

McAlpine, Wallace

Springer Verlag, 1975, \$99.00

The basic aim of this atlas is to provide photographs of dissected, normal hearts for the study of the details and spatial disposition of anatomic structures.

## **INTRODUCTION TO ECHOCARDIOGRAPHY**

McDonald, Ian G.

Charles C. Thomas, Publisher, 1976, photocopy \$28.50

This book provides a succinct account of the principles and applications of echocardiography.

## **INTRODUCTION TO PERIPHERAL VASCULAR DISEASE: A STUDENT SYLLABUS**

Barnes, Robert W.

Medical College of Virginia, 1980, \$15.00

This syllabus covers the vascular history, the physical examination, diagnostic procedures and management of common disorders of the peripheral arterial, cerebrovascular, venous and lymphatic systems.

## **INTRODUCTION TO VASCULAR ULTRASONOGRAPHY**

Zwiebel, W.

Academic Press, 1982, \$49.50

This volume deals with vascular anatomy and the pathogenesis of disease states as well as ultrasonic diagnosis of those states.

### **MANUAL OF ECHOCARDIOGRAPHIC TECHNIQUES**

Phillips, Betty J.

W.B. Saunders Company, 1980, \$24.95

### **NON-INVASIVE CARDIAC DIAGNOSIS**

Chung, Edward K.

Lea and Febiger, 1976, \$18.00

Discusses all aspects of commonly used non-invasive diagnostic methods for frequently encountered cardiovascular disorders.

### **NON-INVASIVE CARDIOVASCULAR DIAGNOSIS**

Diethrich, Edward B.

Wright Publishing Science Group, (2nd Ed.), 1981, \$59.50

Embracing all areas of cardiovascular diagnosis, this text focuses mainly on such areas as echocardiography, oculoplethysmography, phonoangiography, phonocardiography, vectorcardiography, exercise electrocardiography, radionuclide angiography, and scintigraphy.

### **NON-INVASIVE DIAGNOSTIC TECHNIQUES IN PERIPHERAL VASCULAR DISEASE**

Barnes, Robert W.

Medical College of Virginia, 1980, \$50.00

This syllabus reviews the principles, interpretations, application, advantages and limitations of noninvasive vascular diagnostic techniques.

### **NONINVASIVE DIAGNOSTIC TECHNIQUES IN VASCULAR DISEASES**

Bernstein, Eugene F.

C.V. Mosely Company, (2nd Ed.), 1981, \$74.50

In this book, contributors examine current developments in methodology, instrumentation, and available data for noninvasive vascular diagnostic studies, discussing the real-time, oculoplethysmography, the periorbital Doppler test and other key topics.

### **NON-INVASIVE METHODS IN CARDIOLOGY**

Zoneraich, Samuel

Charles C. Thomas, Publisher, 1975, \$59.75

### **NONINVASIVE PERIPHERAL VASCULAR LABORATORY: A MANUAL OF DIAGNOSTIC TECHNIQUES**

Nix, M. Lee; Barnes, Robert W.

Medical College of Virginia, 1980, \$50.00

This manual provides step-by-step pictorial description of laboratory methods to evaluate peripheral arterial, cerebrovascular and venous disease.

## **NON-INVASIVE TECHNIQUES IN CARDIOLOGY**

Benchimol, Alberto  
John Wiley and Sons, Inc., 1978, \$30.00

A concise, clearly-presented working handbook for all who are interested in the technical aspects of non-invasive diagnosis in cardiology.

## **PEDIATRIC ECHOCARDIOGRAPHY**

Meyer, Richard A.  
Lea and Febiger, 1977, \$20.50

This book provides the echocardiographer with an in-depth approach to the evaluation of both congenital and acquired cardiac disease in patients from the newborn period to adulthood.

## **PEDIATRIC ECHOCARDIOGRAPHY - CROSS-SECTIONAL, M-MODE, AND DOPPLER**

Rune-Lundstrom, Nils (Ed.)  
Elsevier North Holland, Inc., 1980, \$69.00

## **PEDIATRICS AND ADOLESCENT ECHOCARDIOGRAPHY**

Goldberg, Stanley J; Allen, Hugh D.; Sahn, David J.  
Year Book Medical Publishers, 1980, \$39.50

This comprehensive handbook includes the latest in M-Mode, echo Doppler, contrast echo cardiography, and more.

## **PHYSIOLOGY OF THE HEART AND CIRCULATION**

Little, Robert C.  
Year Book Medical Publishers, 1977, \$16.95

## **PRINCIPLES OF CLINICAL ELECTROCARDIOGRAPHY**

Golman  
Lange Medical Publications, (10th Ed.), 1979, \$12.00

## **READING EKG'S CORRECTLY**

Van Meter, Margaret; Lavine, Peter  
Inter Med Communications, Inc., 1977, \$11.95

## **TWO DIMENSIONAL ECHOCARDIOGRAPHY**

Kisslo, Joseph  
Churchill Livingstone, Inc., 1980, \$20.50 (Vol. 4 of Clinics in Diagnostic Ultrasound)

This volume covers a wide range of cardiac disorders, with practical consideration of the standard methods and variability of echocardiographic measurements. Results obtained are compared with those obtained by standard radiographic methods.

**ULTRASOUND IN THE DIAGNOSIS OF CARDIOVASCULAR-  
PULMONARY DISEASE**

Joyner, Claude R.

Year Book Medical Publishers, 1974, out of print

**WORKBOOK OF PEDIATRIC ECHOCARDIOGRAPHY**

Allen, Hugh D.

Year Book Medical Publishers, 1978, \$18.95

**B. AUDIOVISUALS**

**DOPPLER INSTRUMENTATION AND PRINCIPLES**

Ziskin, Marvin C.

American Institute of Ultrasound in Medicine

35 mm slides with audio cassette, \$50.00

Provides a basic understanding of the principles and practices of Doppler ultrasound in medicine.

**DOPPLER ULTRASONIC EVALUATION OF CAROTID VELOCITY SIGNALS: AN  
AUDIO INSTRUCTION**

Rittgers, Stanley E.; Barnard, Robert W.

Medical College of Virginia

Manual with tape recording, \$35.00

Illustrated manual accompanies recording of normal direct carotid Doppler flow signals and abnormal sounds from patients with angiographically-correlated carotid stenoses or occlusions.

**ECHOCARDIOGRAPHIC ASSESSMENT OF CONGENITAL AND ACQUIRED  
HEART DISEASE IN CHILDREN**

Children's Hospital of San Diego

35 mm slides, contact hospital for details

**ECHOCARDIOGRAPHY**

Gramiack, Raymond

Radiological Society of North America, Inc.

65 - 35 mm slides, \$70.00

(Contact company for other forthcoming audiovisuals on ultrasound)

Exhibiting actual case examples of normal and abnormal echocardiograms.

**ECHOCARDIOGRAPHY IN ADULT HEART DISEASE**

Merck, Sharp and Dohme

16 mm film, free loan

## **ECHOCARDIOGRAPHY IN PEDIATRIC PATIENTS: PRACTICAL APPLICATIONS**

Meyer, Richard

American Institute of Ultrasound in Medicine

45 - 35 mm slides with audio cassette, \$40.00

Multiple congenital cardiac anomalies in childhood are illustrated with high quality ultrasound images and correlated with anatomic diagrams of the lesions.

## **ECHO AND OTHER METHODS OF STUDY IN CLINICAL CARDIOLOGY**

Joyner, Claude R.

American Institute of Ultrasound in Medicine

81 - 35 mm slides with audio cassette, \$60.00

The comparative value of echo, x ray, angiography, radionuclide, Doppler, and computed tomography for analyzing a variety of cardiac conditions is presented.

## **EVALUATION OF AORTIC VALVE DISEASE BY TWO DIMENSIONAL ECHOCARDIOGRAPHY**

Henry, Walter

American Institute of Ultrasound in Medicine

54 - 35 mm slides with audio cassette, \$50.00

Two-dimensional echocardiography is compared with the standard M-Mode technique and the value of each technique in aortic valvular disease is discussed.

## **HEART: EXTERNAL TESTS**

Concept Media

3/4" color filmstrip, \$98.00

## **MARK 300 ECHOCARDIOGRAPH - ATL**

### **PULSED DOPPLER - ATL**

### **PULSED ECHO - ATL**

## **REAL TIME ECHOCARDIOGRAPHY (VARIAN V3000 ULTRASONOGRAPH)**

Dellegar, W.E.

Grossmont College

3/4" videotapes, small fee for rental or reproduction

## **PERIPHERAL VASCULAR DISEASE**

Strondness, D. Eugene, Jr.

American Institute of Ultrasound in Medicine

35 - 35 mm slides with audio cassette, \$60.00

The technique of continuous wave Doppler ultrasound for peripheral measurement of systolic blood pressure is presented. Various velocity flow patterns associated with stenosis and occlusive vascular disease are illustrated.

## **PRINCIPLES OF REAL-TIME CARDIAC IMAGING**

Kremkau, Frederick W.

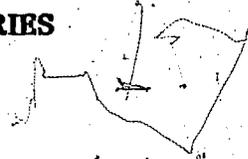
American Institute of Ultrasound in Medicine  
27 - 35 mm slides with audio cassette, \$50.00

The basic principles of A-mode, M-mode, 2-D real time and Doppler Ultrasound are presented. Transducers, displays and other instruments necessary for cardiac imaging are related.

## **SONOGRAPHIC EVALUATION OF CAROTID ARTERIES**

Crittenden, Joseph J., Jr.

American Institute of Ultrasound in Medicine  
57 - 35 mm slides with audio cassette, \$50.00



Reviews the principles upon which the ultrasonic recognition of altered flow through vessels can be diagnosed. The effect of lumen size on flow rates and mathematical derivation of a significant change are included.

## **TRICUSPID AND PULMONIC VALVE DISEASE: TWO DIMENSIONAL ECHOCARDIOGRAPHY**

Schiller, Nelson B.

American Institute of Ultrasound in Medicine  
62 - 35 mm slides with audio cassette, \$50.00

The various echographic approaches to the examination of the right heart are discussed and illustrated.

## 5. COMPUTER SCIENCE AND MATHEMATICS

### A. PUBLICATIONS

#### **BASIC STATISTICS FOR NURSES**

Knapp, Rebecca  
John Wiley and Sons, Inc., 1978, \$12.95

A simple, basic introductory statistics text for nurses and nursing students, including those learning the subject in non-nursing undergraduate courses.

#### **BIOMEDICAL COMPUTING**

Perkins, W.J.  
University Park Press, 1977, \$39.50

Presents a thorough appraisal of the current state of biomedical computing, an assessment of future trends, and evaluations of specific clinical applications of computer science.

#### **COMPUTER AND MEDICAL CARE**

Lindberg, Donald  
Charles C. Thomas, Publisher, 1971, \$16.25

#### **COMPUTER TECHNIQUES IN CARDIOLOGY**

Cady, Lee D., Jr.  
Marcell Dekker, Inc., 1979, \$45.00

Offers in a single source a broad introduction to the principles, methods, and techniques employed in the application of computers to the field of cardiology.

#### **COMPUTER TECHNOLOGY IN THE HEALTH SCIENCES**

Sheris, David B.  
Charles C. Thomas, Publisher, 1974, \$13.75

#### **COMPUTERS IN MEDICINE - AN INTRODUCTION**

Enlander, Derek  
C.V. Mosby Company, 1980, \$14.95

Introduction to the medical uses of computer systems. It begins with historical background, outlines basic concepts of computer programming, and concludes with a checklist of computer hardware.

#### **COMPUTERS IN ULTRASONIC DIAGNOSTICS (MEDICAL COMPUTING SERIES)**

Wells, Peter, N.T.; Woodcock, J.P.  
John Wiley and Sons, Inc., 1977, \$33.25

Examines the acquisition, computation, and display of ultrasonic data in medicine.

## **FUNDAMENTAL MATHEMATICS**

Wade, Thomas L.; Taylor, Howard E.  
McGraw-Hill Book Company, (4th Ed.), 1974, \$17.95

Freshman-level text leads from study of the basic structures of arithmetic and algebra to functions, graphs, logarithms, and elements of trigonometry and statistics.

## **HANDBOOK OF PHYSICAL CALCULATIONS**

Tuma, Jan L.  
McGraw-Hill Book Company, 1975, \$21.50

Concise summary of major definitions, formulas, tables, and examples of elementary and intermediate technological physics for practicing engineers and technologists.

## **MATHEMATICS FOR TECHNOLOGISTS IN RADIOLOGY, NUCLEAR MEDICINE AND RADIATION THERAPY**

Stefani; Hubbard  
C.V. Mosby Company, 1979, \$14.95

Explains and illustrates the mathematics needed by radiologic technologists. The authors weave basic principles into challenging problems on x-ray equipment, techniques, radiation, and drug dosage.

## **MEDICAL MATHEMATICS**

Taylor, Thomas J.  
Bobbs-Merrill Co., Inc., 1975, \$4.55

Presents a progressive development of the mathematical skills needed by allied health personnel. Combines the conventional math approach with features of "New Math." Emphasis is on the special needs of technicians in the health fields.

## **MICROCOMPUTERS/MICROPROCESSORS: HARDWARE, SOFTWARE AND APPLICATIONS**

Hilburn, J.F.; Julick, P.M.  
Prentice Hall, Inc., 1976, \$23.95

## **PRACTICAL MATHEMATICS IN ALLIED HEALTH**

Waterhouse, Marion  
Urban Schwartzberg, 1979, \$15.95

A textbook for the medical disciplines.

## **B. AUDIOVISUALS**

### **INTRODUCTION TO COMPUTERS**

Polcyn, Robert E.

Society of Nuclear Medicine, Chicago address

Educational Program - slide tape format, \$50.00, SNM members, \$60.00 nonmembers

This audiovisual provides the viewer with an introduction to computer design, function, and operation. Some computer terminology is also defined.

### **PRACTICAL STATISTICS**

Beckman Instruments, Inc.

68 - 35 mm slides/sound and transcript, Order No. 91-000-80-00, \$145.00

Discusses sampling technique, graphic presentation of data, systematic and random errors, accuracy, and precision.

## 6. DIAGNOSTIC ULTRASOUND

### A. PUBLICATIONS

#### **ATLAS OF ESSENTIAL ULTRASOUND IMAGING**

Omoto, R.; Kobayashi, Mitsumao  
Sgaku-Shoin Medical Publications, 1981, \$35.00

#### **ATLAS OF GRAY SCALE ULTRASONOGRAPHY**

Taylor, Kenneth J.W.  
Churchill Livingstone Inc., 1978, \$38.50

Atlas includes a collection of 219 examples of normal and abnormal conditions, extensively covering the uses and techniques of gray scale ultrasonography. A thorough discussion of instrumentation and acoustic physics, machine settings, scanning techniques, and patient preparation is present.

#### **BIOMEDICAL ULTRASONICS**

Wells, Peter N.T.  
Academic Press, 1977, \$97.50

Includes such chapters as Radiation, Scattering by Biological Materials, Pulse-Echo Methods, and Doppler Methods.

#### **CASES IN DIAGNOSTIC ULTRASOUND, VOLUME 1**

Leopold, George R.  
John Wiley and Sons, Inc., 1980, \$33.50

An annual publication based on the proceedings of the Los Angeles Radiological Society Spring Ultrasound Workshop. Each individual case details the history, illustrated findings, diagnosis, and references.

#### **CASE STUDIES IN ULTRASOUND**

Bartrum, Royal J.; Crow, Harte C.  
W.B. Saunders Company, 1979, \$27.50

This text provides differential diagnostic scans of every disease entity. Each case includes a paragraph of clinical information, figures, and a section on diagnosis.

#### **CASE STUDIES IN ULTRASOUND**

Finburg  
Churchill Livingstone Inc., 1981, \$22.00  
(Vol. 9 of Clinics in Diagnostic Ultrasound)

#### **CLINICAL ULTRASOUND REVIEW**

Winsberg, Fred  
John Wiley and Sons, Inc., 1981, Vol. 1 \$50.00, Vol. 2 \$57.50

The first in an annual review serial, this volume presents abstracts of outstanding international journal literature in diagnostic ultrasound published during 1979.

### **DIAGNOSTIC IMAGING IN RENAL DISEASE**

Rosenfield; Glickman; Hodson (Eds.)  
Appleton-Century-Crofts, 1979, \$37.50

This work guides radiologists, nephrologists, and urologists in obtaining the appropriate modality for accurate diagnosis.

### **DIAGNOSTIC ULTRASONICS - PRINCIPLES AND USE OF INSTRUMENTS**

McDicken, William N.  
John Wiley and Sons, Inc., (2nd Ed.), 1981, \$44.00

Describes the basic principles of diagnostic ultrasonic instruments and discusses the methods of use and the limitations of each instrument. Updated edition includes such advances as: real-time ultrasonic imaging; digital scan converters and computer processing; and pulsed Doppler blood flow instruments.

### **DIAGNOSTIC ULTRASOUND**

Gosink, Barbara B.; Squire, Lucy F.  
W.B. Saunders Company, (2nd Ed.), 1981, \$15.95

This new edition, revised to reflect recent changes in technology, covers all of the common clinical uses of ultrasound, discussing its relative advantages as compared to computed tomography in appropriate cases.

### **DIAGNOSTIC ULTRASOUND**

King, Donald L. (Ed.)  
C.V. Mosby Company, 1974, out of print

Recognized authorities examine the expanding role of diagnostic ultrasound, from an historical perspective to present day uses. Rationale, techniques and procedures for various tests are outlined, along with the clinical safety of ultrasound and its biological effect on humans.

### **DIAGNOSTIC ULTRASOUND CASE STUDIES**

Kovac; Geshner  
Medical Examination Publishing Co., Inc., 1981, \$21.50

### **DIAGNOSTIC ULTRASOUND IN CLINICAL MEDICINE**

Goldberg, Barry G.  
Medcom Press, 1973, out of print

### **DIAGNOSTIC ULTRASOUND IN GASTROINTESTINAL DISEASES**

Taylor, Kenneth J.W. (Ed)  
Churchill Livingstone Inc., 1979, \$20.50  
(Vol. 1 of Clinics in Diagnostic Ultrasound)

Chapters discuss the role of ultrasound in liver diseases, pancreatic diseases, diseases of the biliary tree, the diagnosis of gallstones, and ultrasonically guided percutaneous aspiration and biopsy procedures. Clinical cases present the reader with the opportunity to make a diagnosis and assess what has been learned.

**DIAGNOSTIC ULTRASOUND IN NEUROLOGY - METHODS AND TECHNIQUES**

Tenner, Michael S.; Wadraska, Georgina  
John Wiley and Sons, Inc., 1975, out of print

**DIAGNOSTIC ULTRASOUND: PHYSICAL PRINCIPLES AND EXERCISES**

Kremkau, Frederick W.  
Grune and Stratton, Inc., 1980, \$19.50

This text is designed for sonographers and physicians who require a basic knowledge in acoustics and instrumentation in diagnostic ultrasound. Over 450 problems are provided to check progress, strengthen concepts, and provide practice for registry and specialty board examinations.

**DIAGNOSTIC ULTRASOUND: A REVIEW OF CLINICAL APPLICATIONS AND THE STATE OF THE ART OF COMMERCIAL AND EXPERIMENTAL SYSTEMS**

Bureau of Radiological Health  
National Technical Information Service, PB 258-237/AS, 1976, \$10.50

This report provides an overview of the current status of diagnostic ultrasound including estimates of the market size and the extent of clinical application and descriptions of training opportunities and professional societies.

**DIAGNOSTIC ULTRASOUND: TEXT AND CASES**

Sarti, Dennis A.; Sample, Fred W.  
G.K. Hall and Company, 1979, \$79.50

**DIAGNOSTIC USES OF ULTRASOUND**

Goldberg, Barry G. (Ed.)  
Grune and Stratton, Inc., 1975, \$59.50

Providing a working knowledge of the principles of ultrasound and its applications and limitations, this text focuses on how, in which patients, and to what degree the ultrasonic techniques now available can contribute to effective patient care.

**ESSENTIALS OF MEDICAL ULTRASOUND  
A PRACTICAL INTRODUCTION TO THE PRINCIPLES, TECHNIQUES,  
AND BIOMEDICAL APPLICATIONS**

Repacholi, Michael H.; Benwell, Deirdre A. (Eds.)  
The Humana Press, Inc., 1982, \$49.50

**FUNDAMENTALS OF MEDICAL ULTRASONOGRAPHY**

Baum, G. (Ed.)  
G.P. Putman and Sons, 1975, out of print

## **GENTOURINARY ULTRASONOGRAPHY**

Rosenfield, Arthur (Ed.)

Churchill Livingstone Inc., 1979, \$22.00

(Vol. 2 of Clinics in Diagnostic Ultrasound)

The latest applications of ultrasound in the evaluation of the urinary tract and the gynecologic patient are examined in this volume. The complimentary role of ultrasound in relation to other urologic techniques is demonstrated.

## **GRAY-SCALE ULTRASOUND: A MANUAL FOR PHYSICIANS AND TECHNICAL PERSONNEL**

Bartrum, Royal J.; Crow, Harte C.

W.B. Saunders Company, 1977, \$18.95

## **INTRODUCTION TO DIAGNOSTIC SONOGRAPHY**

Fleischer, Arthur C.; Everette, James A., Jr.

John Wiley and Sons, Inc., 1980, \$35.00

Highlights all of the major clinical applications of diagnostic sonography in each major field. Differential sonographic features are summarized in tables, and hundreds of illustrations demonstrate specific diagnostic entities. Discussions also cover biophysical and instrumentation aspects and comparisons to other diagnostic modalities.

## **INTRODUCTION TO DIAGNOSTIC ULTRASOUND**

Love, Michael B.

Charles C. Thomas, Publisher, 1981, \$18.75

## **MANUAL OF ULTRASONOGRAPHY**

Taylor, Kenneth J.W.; Jacobson, Paula

Churchill Livingstone Inc., 1980, \$22.50

Designed as a companion to Taylor's Atlas of Gray Scale Ultrasonography, this manual focuses on technique and application to aid the technician in obtaining and interpreting high quality scans. Emphasis is on normal anatomy, with a minimum of pathology for illustrative purposes.

## **MEDICAL ULTRASOUND**

Society of Diagnostic Medical Sonographers

John Wiley and Sons, Inc., 1982, \$28.00

## **NEW TECHNIQUES AND INSTRUMENTATION IN ULTRASONOGRAPHY**

Wells, Peter N.T.; Ziskin, Marvin

Churchill Livingstone Inc., 1980, \$20.50

(Vol. 5 of Clinics in Diagnostic Ultrasound)

An up-to-date review of new techniques and instrumentation which are of direct relevance to clinicians practicing in diagnostic ultrasound.

## **OPERATIVE ULTRASONOGRAPHY**

Sigel, Bernard  
Lea and Febiger, 1982, \$20.00

This is a new book which acquaints the surgeon with the basics of imaging ultrasound. Emphasis is on its application in detecting and localizing structures so that tissue dissection and the need for radiography may be reduced.

## **REAL-TIME MEDICAL IMAGE PROCESSING**

Onoe, Morio, et al.  
Plenum Publishing, 1980, \$35.00

## **REAL TIME/PARALLEL COMPUTING: IMAGE ANALYSIS**

Onoe, Mario, et al.  
Plenum Publishing, 1981, \$45.00

Both books by Onoe et al. are based on proceedings of part of the Japan-U.S. Seminars on Research Toward Real-Time Parallel Image Analysis and Recognition, held in Tokyo, Japan, October 31-November 4, 1978. Two volume set, \$72.50

## **RECENT ADVANCES IN DIAGNOSTIC ULTRASOUND**

Rand, Elias  
Charles C. Thomas, Publisher, 1971, out of print

## **SEEING WITH SOUND**

American College of Radiology  
Members: \$14.95 per 500; \$27.95 per 1000; \$135.00 per 5000; \$250.00 per 10,000  
Non-members: \$ .04 each

Illustrated pamphlet describes the principles of ultrasound and how it is used to detect disease. Explains the safety and comfort of the procedure, the advantages of real-time sonography, and the kinds of information ultrasound provides the physician.

## **SOCIETY OF DIAGNOSTIC MEDICAL SONOGRAPHERS EDUCATIONAL OUTLINES, VOL. I-IV**

Members of the Society of Diagnostic Medical Sonographers, the American Society of Echocardiographers, and the American Institute of Ultrasound in Medicine: \$25.00 per set, \$8.00 per volume  
Non-members: \$40.00 per set, \$15.00 per volume

## **TEXTBOOK OF DIAGNOSTIC ULTRASONOGRAPHY**

Hagen-Answert, Sandra L.  
C.V. Mosby Company, 1978, \$49.50

This book is a comprehensive text on fundamentals, techniques, and clinical applications of heart, abdomen, and pelvis scanning. The author emphasizes anatomy, physiology, pathology, and ultrasonic techniques and patterns.

## **THINKER'S GUIDE TO ULTRASONIC IMAGING**

Powis, R.L.; Powis, W.J.  
Urban Schwartzberg, 1982, \$32.50

Includes such chapters as: Inner Workings of the Ultrasound Machine; the Basic Character of Ultrasound; Wave and Wave analysis; Basic Internal Organization of the B-Scanner; Extracting Information from Ultrasound Images; Reading Resolution out of the Images.

## **ULTRASONICALLY GUIDED PUNCTURE TECHNIQUE**

Holm, H.H.; Kristensen, J.K.  
W.B. Saunders Company, 1981, \$37.50

This volume thoroughly covers the various percutaneous puncture techniques that are ultrasonically guided including amniocentesis, fine needle aspiration biopsy, and percutaneous transhepatic portography.

## **ULTRASONIC IMAGING AND HOLOGRAPHY: MEDICAL, SONAR, AND OPTICAL APPLICATIONS**

Stroke, George W. (Ed.)  
Plenum Publishing, 1974, \$49.50

Proceedings on the U.S.-Japan Science Cooperation Seminar on Pattern Information Processing in Ultrasonic Imaging, held at the University of Hawaii, Honolulu, January 7-13, 1973.

## **ULTRASONIC IMAGING: SEEING WITH SOUND**

Greguss, P.  
Focal Press, Inc., 1980, \$37.50

## **ULTRASONICS**

Cracknell, A.P.; Clark, J.L.  
Crane Russak and Company, Inc., 1980, \$15.95

## **ULTRASONICS**

Woodcock, John P.  
Heyden and Son, Inc., 1979, \$29.50

## **ULTRASONICS IN CLINICAL DIAGNOSIS**

Wells, Peter N.T.  
Churchill Livingstone Inc., (2nd Ed.), 1978, \$20.00

## **ULTRASONICS AS A MEDICAL DIAGNOSTIC TOOL**

DiStasio, J.I.  
Noyes Data Corporation, 1980, \$32.00

Chapters includes principles and application; computer-assisted ultrasonic tomography; tissue scanning; burn depth determination; cardiology; quantification of myocardial damage; and imaging of the brain: attenuation by the skull.

### **ULTRASONICS IN MEDICINE**

Kazner, E., et al.

Elsevier North Holland, Inc., 1976, \$63.50

### **ULTRASONICS: METHODS AND APPLICATIONS**

Blitz, Jack

Van Nostrand, D., Co., 1971, out of print

### **ULTRASONOGRAPHY: BASIC PRINCIPLES AND CLINICAL APPLICATIONS**

Brown, Ross E.

Warren H. Green Publishers, Inc., (2nd Ed.), 1980, \$28.50

This work brings together, in an easily understandable fashion, the many uses of ultrasound and includes descriptive sections on technique, procedures, and interpretation.

### **ULTRASONOGRAPHY OF DIGESTIVE DISEASES**

Weill, Francis S.

C.V. Mosby Company, (2nd Ed.), 1982, \$69.50

Sections on technology, the liver, biliary tract, pancreas, and spleen each contain chapters on echoanatomy reviewing examination techniques; normal and abnormal anatomy; shape, contours, and structures; tissular echopattern; echoanatomic relations; normality criteria; special technical conditions; errors and pitfalls.

### **ULTRASOUND IN BIOMEDICINE**

White, Dennis

Pergamon Press, 1981, \$100.00

### **ULTRASOUND IN CANCER**

Goldberg, Barry B.

Churchill Livingstone Inc., 1980, \$20.50

(Vol 6 of Clinics in Diagnostic Ultrasound)

This volume discusses cancer of the liver, gallbladder and bile ducts, pancreas, kidney, breast and eye, lymphomas, retroperitoneal cancer, gynecologic cancer, pediatric tumors, small parts scanning, treatment planning, and therapeutic use of ultrasound in cancer.

### **ULTRASOUND IN EMERGENCY MEDICINE**

Taylor, Kenneth J.W.; Visconic, Gregory N.

Churchill Livingstone Inc., 1981, \$22.00

(Vol. 7 of Clinics in Diagnostic Ultrasound)

Chapters cover such emergencies as: abdominal trauma; acute renal failure; pulsatile epigastric masses; obstetrical and gynecological emergencies; intra-abdominal and pelvic abscesses; and neonatal intracranial emergencies.

### **ULTRASOUND IN MEDICINE**

White, Dennis; Brown, Ross E.  
Plenum Publishing, 1976, Vol 1. \$65.00, Vol. 2 \$55.00, Vol. 3a \$90.00,  
Vol. 3b \$90.00, Vol. 4 \$69.50

### **ULTRASOUND IN MEDICINE AND BIOLOGY**

Wagai, Toshio; Omoto, Ryoza  
Elsevier North Holland, Inc., 1979, \$70.00

### **ULTRASOUND IN TUMOR DIAGNOSIS**

Hill, C.R.; Cosgrove, D.O.; McCready, V.R. (Eds.)  
Year Book Medical Publishers, 1979, \$39.00

This book documents the existing established applications of ultrasound imaging technology in cancer management and points the way to some of the likely future developments in the field.

### **ULTRASOUND IN UROLOGY**

Resnick, Martin I.; Sanders, Roger C.  
Williams and Wilkins Company, 1979, \$37.95

This concise summary of the practical applications of ultrasound in urology covers the basic principles of ultrasound physics, ultrasonic appearances of genitourinary tract disorders, and specific uses of ultrasonics.

### **USER'S GUIDE TO DIAGNOSTIC ULTRASOUND**

Shirley, Isabel M.; Blackwell, Ronald J.; Cusick, Geoffrey  
University Park Press, 1978, \$19.95

This textbook familiarizes newcomers to the field of diagnostic ultrasound with the essential physical properties of the technique.

### **WHO'S AFRAID OF A HUNDRED MILLIWATTS PER SQUARE CENTIMETER (100MW/CM<sup>2</sup> SPTA)?**

American Institute of Ultrasound in Medicine, 1981, AIUM Members: \$2.00  
each, \$22.50 per 100  
Non-members: \$4.00 each, \$45.00 per 100

Section I of this pamphlet on ultrasound safety defines the acoustic parameters of diagnostic ultrasound and Section II covers present knowledge on the biological effects of ultrasound.

### **YOUR DIAGNOSTIC ULTRASOUND EXAMINATION**

American Institute of Ultrasound in Medicine, 1981, AIUM Member: \$1.00  
each, \$15.00 per 100  
Non-member: \$2.00 each, \$30.00 per 100

This pamphlet serves to answer patient's questions about diagnostic ultrasound.

## **B. AUDIOVISUALS**

### **BRAIN: ELECTROENCEPHALOGRAPHY, ECHOENCEPHALOGRAPHY, SCANNING**

Concept Media  
3/4" color filmstrip, \$98.00

### **DIAGNOSTIC ULTRASOUND VIDEOTAPE SERIES**

San Diego Radiology Research and Education Foundation  
1/2" or 3/4" videotapes, Rental: \$40.00 per tape (2 or more), \$350.00 per series (10 tapes), Purchase: \$150.00 per tape

#### **SERIES I, 1979**

Basic Principles of Diagnostic Ultrasound, Gosink  
Normal Cross-Sectional Anatomy, Leopold  
When to Use Ultrasound First, Scheible  
Ultrasound or Oral Cholecystography, Gosink  
Jaundice: The Ultrasound Approach, Gosink  
Ultrasound of the Pancreas, Gosink  
Ultrasound of the GU Tract, Scheible  
Gynecologic Ultrasound, Leopold  
Fetal Abnormalities, Leopold  
Scanning the Neck and Other Superficial Structures, Leopold

#### **SERIES II, 1982**

Instrumentation - What You Really Need to Know, Forsythe  
The Female Pelvis: Cyclic Changes, Gosink  
Real-time Ultrasonography, Leopold  
Liver Parenchymal Disease, Gosink  
Abdominal Abscess: An Imaging Approach, Scheible  
Segmental Anatomy of the Biliary Tract, Leopold  
Ultrasonography in Pediatrics, Scheible  
Percutaneous Biopsy by CT or Ultrasound Guidance, van Sonnenberg  
Ultrasound Mammography, Leopold  
Percutaneous Drainage of Abdominal Abscesses and Fluid Collections, van Sonnenberg

### **GRAY SCALE ULTRASONOGRAPHY**

Goldberg  
Medcom Products  
100 - 35 mm slides with audio cassette, \$120.00.

## **IN-SERVICE REVIEWS IN ULTRASOUND TECHNOLOGY**

Educational Reviews, Inc.

Each year 12 orders are sent to subscribers - Vol. 1 1980, Vol. 2 1981, Vol 3 1982

Individual order includes tape, study guide and index. Department order includes tape, instructor's guide, and 5 booklets.

Price per year: \$120.00 individual, \$150.00 department

Price of back issues: \$100.00 individual, \$130.00 department

### **VOLUME I:**

Physics - Ultrasound; Physics - Ultrasound 2; Introduction to Female Reproduction; Pelvic Anatomy; Embryology; Placenta; Amniotic Fluid, 1st Trimester of Pregnancy; 2nd Trimester of Pregnancy; Congenital Anomalies; Vascular Sonography; Liver and Gallbladder.

### **VOLUME 2:**

Hepatic Sonograph II; Cholecystosonography; Pancreatic Sonography, Parts I and II; The Urinary System, Parts I-III; Adrenal and Splenic Sonography; Thyroid Sonography; Pelvic Sonography Update; Real Time and CT Imaging, Complements and Controversies; Obstetrical Sonography Update and Biopsy and Interventional Techniques with Ultrasound Assistance.

### **VOLUME 3:**

Neonatal Intracranial Sonography and Tricks of the Trade: A Sonographer's Point of View.

## **INTERVENTIONAL ULTRASOUND ASPIRATION BIOPSY**

Merritt, Christopher R.B.

American Institute of Ultrasound in Medicine  
62 - 35 mm slides with audio cassette, \$50.00

This program discusses the advantages and complications of ultrasonically guided aspiration biopsy. Equipment, procedure, and technique illustrations are presented along with specific study case examples.

## **PANCREAS AND RETROPERITONEAL SONOGRAPHY**

Bartrum, Royal J., Jr.

American Institute of Ultrasound in Medicine  
68 - 35 mm slides with audio cassette, \$50.00

This audiovisual describes scanning techniques for the pancreas, pancreatic duct, adrenal, and lymph nodes surrounding the aorta.

## **PANCREAS AND RETROPERITONEUM**

Fleisher, Arthur C.

American Institute of Ultrasound in Medicine  
75 - 35 mm slides with audio cassette, \$50.00

The sonographic features of acute and chronic pancreatitis, pseudocysts, pancreatic tumors and retroperitoneal tumors are presented and contrasted relative to computed tomography and other imaging modalities.

## **PELVIC MASSES**

Goldberg, Barry B.  
American Institute of Ultrasound in Medicine  
82 - 35 mm slides with audio cassette, \$60.00

The importance of ultrasonic images for visualization of the pelvis is emphasized. Procedures for localizing and differentiating pelvic masses are discussed. The program points out how some characteristic patterns lead to specific diagnosis and that correlating clinical findings with patient history is necessary.

## **PROSTATIC SCANNING: NEW APPROACHES**

Brown, Ross E.  
American Institute of Ultrasound in Medicine  
62 - 35 mm slides with audio cassette, \$50.00

The anatomy of the prostate is presented, along with its pathology, which includes inflammation, benign enlargement and carcinoma. The clinical significance of carcinoma is emphasized in relation to its stage at diagnosis. Methods to examine the prostate ultrasonographically are discussed and illustrated.

## **PULSED ECHO - ATL**

Dellegar, W.E.  
Grossmont College  
3/4" videotape, small fee for rental or reproduction

## **REAL TIME IN CLINICAL DIAGNOSIS**

Carlsen, Ernest N.  
American Institute of Ultrasound in Medicine  
48 - 35 mm slides with audio cassette, \$50.00

Illustrations of the role of real time ultrasound imaging with current state-of-the-art resolution point out the increasing benefit of this modality. Types of equipment are reviewed, citing their advantages and limitations.

## **RENAL SONOGRAPHY**

Fleischer, Arthur C.  
American Institute of Ultrasound in Medicine  
79 - 35 mm slides with audio cassette, \$50.00

This program covers normal sonographic anatomy of the kidney, perirenal space, and renal mass; the use of renal sonography relative to excretory urography, angiography, CT and radionuclide renography; and sonographic evaluation of the poorly functioning kidney, renal transplants and congenital anomalies.

## **RENAL SONOGRAPHY: PARENCHYMAL CHANGES AND MASSES**

Bartrum, Royal J.

American Institute of Ultrasound in Medicine

35 - 35 mm slides with audio cassette, \$50.00

This program discusses techniques in renal sonography, differentiation of focal masses, and the diagnosis of hydronephrosis.

## **SMALL PARTS SCANNING**

Bartrum, Royal J.

American Institute of Ultrasound in Medicine

59 - 35 mm slides with audio cassette, \$50.00

New instrumentation with higher axial resolution and limited range, improved by using better damping techniques and higher frequencies, now allows detailed examination of superficial structures such as the carotid arteries, thyroid gland and testicle. This program discusses instrumentation and lesions of such structures.

## **ULTRASONOGRAPHY IN SURGERY - NEW DIMENSION IN DIAGNOSIS**

MPO film (requires special projector)

Contact professional representative of Merck, Sharp and Dohme for loan.

## **ULTRASOUND**

Teele, Rita L.

Radiological Society of North America, Inc.

35 mm slides with audio cassette, \$95.00

## **ULTRASOUND DIAGNOSIS OF GALLSTONES**

Lyns, Edward A.

American Institute of Ultrasound in Medicine

44 - 35 mm slides with audio cassette, \$50.00

This program focuses on ultrasound techniques for detecting gallstones. The importance of a high frequency crystal with appropriate focal length and lateral resolution is emphasized. Typical findings and multiple variations of gallstone appearance are highlighted.

## **ULTRASOUND IN DIAGNOSIS OF INTRACRANIAL HEMORRHAGE**

Johnson, Michael

American Institute of Ultrasound in Medicine

60 - 35 mm slides with audio cassette, \$50.00

Ultrasound has a high specificity and sensitivity to detect and localize hemorrhage and can be used in a serial mode to evaluate resolution or progression of the lesion. Included are illustrations of hemorrhage varying in location and severity with follow-up development of hydrocephalus or porencephaly.

## **ULTRASOUND IN THE DIAGNOSIS OF OTHER CNS MALFORMATIONS**

Babcock, Diane S.

American Institute of Ultrasound in Medicine

48 - 35 mm slides with audio cassette, \$40.00

This program discusses and illustrates the numerous cystic malformations of the brain which can be detected and identified with ultrasound. Many of these ultrasound findings are correlated with angiography, pneumoencephalography and CT.

## **ULTRASOUND EVALUATION OF THE JAUNDICED PATIENT**

Merritt, Christopher R.B.

American Institute of Ultrasound in Medicine

58 - 35 mm slides with audio cassette, \$50.00

The primary role of ultrasound in jaundice is to demonstrate the biliary tree and confirm the presence or absence of bile duct dilation. With static and real time instruments, the level of obstruction and etiological causes can often be determined and some nonobstructive causes may also be revealed.

## **ULTRASOUND EVALUATION OF THE KIDNEY**

Sanders, Rifkin

Medcom Products

60 - 35 mm slides with audio cassette, \$90.00

## **ULTRASOUND IN HEPATIC METASTATIC DISEASE**

Merritt, Christopher R.B.

American Institute of Ultrasound in Medicine

59 - 35 mm slides with audio cassette, \$50.00

The various patterns of metastatic disease as present in the liver are illustrated and discussed. The accuracy of ultrasound when used as a supplement to radionuclide scanning in characterizing focal abnormalities is reviewed.

## **ULTRASOUND IN RADIATION THERAPY PLANNING**

Brascho, Donn J.; Brown, Ross E.

Radiological Society of North America, Inc.

35 mm slides with audio cassette, \$95.00

## **URINARY SYSTEM: BLADDER FUNCTION TESTS, ULTRASONOGRAPHY AND RADIONUCLIDE STUDIES**

Concept Media

3/4" color filmstrip, \$98.00

## 7. MULTI-MODE IMAGING

### A. PUBLICATIONS

#### **ATLAS OF NON-INVASIVE TECHNIQUES**

Luisada, Aldo; Perez, Gloria; Bhat, Pachalla  
Charles C. Thomas, Publisher, 1976, \$45.75

Presents interpretations of tracings obtained by indirect methods (non-invasive techniques) and discusses the usefulness of these methods, the precision of their data, and their possible shortcomings.

#### **COMPUTED TOMOGRAPHY OF THE HEAD AND NECK**

Mancuss, Anthony; Hanafee, William  
Williams and Wilkins Company, 1981, \$55.00

#### **COMPUTED TOMOGRAPHY, ULTRASOUND, AND X-RAY**

Moss, Albert A.; Goldberg, Henry I.  
Masson Publishing USA, Inc., 1979, \$65.50

#### **COMPUTER AIDED TOMOGRAPHY AND ULTRASONICS IN MEDICINE**

Ravio, J.; Greenleaf, J.F.  
Elsevier North Holland, Inc., 1978, \$46.50

#### **CORRELATIONS IN DIAGNOSTIC IMAGING**

Sodee, D. Bruce  
Appleton-Century-Crofts, 1979, \$22.00

Imaging experts from different fields offer their professional opinions on and experience with imaging's major diagnostic procedures - nuclear medicine, ultrasound, and computed tomography.

#### **INTERCOMPARISON OF NUCLEAR MEDICINE, ULTRASONOGRAPHY, AND COMPUTED TOMOGRAPHY IN THE DIAGNOSIS OF LIVER DISEASE: A RETROSPECTIVE STUDY**

Bureau of Radiological Health  
National Technical Information Service, PB 199-044/AS, 1981, \$7.50

Presents the results of a review on the contributions of nuclear medicine, ultrasonography, and computed tomography to the diagnosis of various hepatic diseases.

#### **INTRODUCTION TO CLINICAL RADIOLOGY: A CORRELATIVE APPROACH TO DIAGNOSTIC IMAGING**

Daffner, Richard H.  
C.V. Mosby Company, 1978, out of print

This introductory text thoroughly correlates radiologic patterns with the pathophysiology they indicate. Information on diagnostic ultrasound and computed tomography is incorporated into the discussions.

## **MEDICAL IMAGING**

Krell, Louis, Ed.

Year Book Medical Publishers, 1979, \$45.00

A basic text for all clinicians wishing to familiarize themselves with the various scanning techniques - computed tomography, ultrasound, and isotope and nuclear magnetic resonance imaging.

## **NUCLEAR MEDICINE AND ULTRASOUND**

Freeman, Leonard M.; Blafox, M. Donald

Grune and Stratton, Inc., 1976, \$34.00

Includes such topics as ultrasound evaluation of the thyroid, ultrasonic and radionuclide scanning in pancreatic disease and nuclear medicine and ultrasound.

## **RECENT ADVANCES IN RADIOLOGY AND IMAGING**

Lodge, Thomas; Steiner, R.E.

Churchill Livingstone Inc., 1979, \$55.00

## **TEXTBOOK OF RADIODIAGNOSIS**

van Voorthuisen, A.E.

Oxford University Press, Inc., 1979, \$67.50

The examination of each organ is discussed in detail, with reference to ultrasound, computed tomography, and nuclear medicine where appropriate.

## **TEXTBOOK OF RADIOLOGY AND IMAGING**

Sutton, David, (Ed.)

Churchill Livingstone Inc., (3rd Ed.), 1980, \$175.00 for 2 vol.

Comprehensive textbook of radiology. Completely updated, with many new illustrations, a new section has been added on imaging which covers computed tomography of the central nervous system and the body, radioisotope scanning and the uses of ultrasound.

## **B. AUDIOVISUALS**

### **CT/ULTRASOUND CORRELATIVE BRAIN ANATOMY (NORMAL)**

Rumack, Carol

American Institute of Ultrasound in Medicine

41 - 35 mm slides, \$40.00

A comparison is made between computed tomography and ultrasound evaluation of the infant brain. Advantages and disadvantages of each modality are discussed.

## 8. OBSTETRICS/GYNECOLOGY

### A. PUBLICATIONS

#### **ATLAS OF ULTRASONIC DIAGNOSIS IN GYNECOLOGY AND OBSTETRICS**

Schlensker, Karl-Heinz

Publishing Science Group, 1975, out of print

#### **ATLAS OF ULTRASONOGRAPHY IN OBSTETRICS AND GYNECOLOGY**

Kobayaski, Mitsumao; Hellman, L.; Cromb, E.

Appleton-Century-Crofts, out of print

#### **CLINICAL ATLAS OF GRAY SCALE ULTRASONOGRAPHY IN OBSTETRICS**

Cadkin, Alan V.; Motew, Martin N.

Charles C. Thomas, Publisher, 1979, \$77.50

Numerous high quality gray scale scans are used to demonstrate clinical applications, diagnostic findings, normal variations, and common pitfalls. General information is presented on basic physics, scanning techniques, gynecology, and practical applications of real-time ultrasound.

#### **DIAGNOSTIC ULTRASOUND APPLIED TO OBSTETRICS AND GYNECOLOGY**

Sabbagha, Rudy E.

Harper and Row Publishers, 1980, \$47.50

Topics include ultrasound use in differentiating normal from abnormal pregnancy; gynecologic and breast diseases; abdominal and cardiac abnormalities; and defining fetal age, growth, weight, and well-being.

#### **DIAGNOSTIC ULTRASOUND IN CLINICAL OBSTETRICS AND GYNECOLOGY**

Thompson, Horace E.; Bernstein, Richard L.

John Wiley and Sons, Inc., 1978, \$45.00

A text-reference of applications of diagnostic ultrasound in obstetrics and gynecology, including: diagnosis of pregnancy, placental localization, multiple pregnancy, complications of pregnancy, identification of fetal life and death, differentiation of solid and cystic masses, identification of free and encysted fluid, and localization of intrauterine contraceptive devices.

#### **DIAGNOSTIC ULTRASOUND IN OBSTETRICS**

Hobbins, John C.

Churchill Livingstone Inc., 1979, \$22.00

(Vol. 3 of Clinics in Diagnostic Ultrasound)

In addition to examining the role of ultrasound in ascertaining gestational age, placental localization, and multiple gestation, this volume explores the potential of the modality in obtaining subtle information about the growth and development of the fetus, its structure and dynamic function.

## **GYNECOLOGY**

Parson, L.; Sommers, S.C.

W.B. Saunders Company, (2nd Ed.), 1978, Vol. 1 \$50.00, Vol. 2 \$40.00

This second edition brings added information on: stilbestrol and vaginal carcinoma; administered estrogens and endometrial carcinoma; contraceptive pills; and major gynecologic cancers and their management.

## **GYNECOLOGY ILLUSTRATED**

Garrey, M.; Govan, A.; Hodge, C.; Callander, R.

Churchill Livingstone Inc., 1978, \$21.75

A solid base for learning gynecology is found in this text which contains the latest information on abortion, sterilization and contraception, as well as the modern use of cytotoxic drugs in the treatment of malignant disease.

## **HANDBOOK OF OBSTETRICS AND GYNECOLOGY**

Benson, R.C.

Lange Medical Publications, (7th Ed.), 1980, \$10.00

## **ILLUSTRATED MANUAL OF ULTRASONOGRAPHY IN OBSTETRICS AND GYNECOLOGY**

Kobayaski, Mitsumao

Lippincott/Harper, 1974, out of print

This manual contains 674 electrosonograms which are valuable as standards of reference to aid in the diagnosis of obstetric and gynecologic problems. Both scanning and interpretation techniques for obstetric and gynecologic entities are presented.

## **MAMMOGRAPHIC, THERMOGRAPHIC AND ULTRASONIC INSTALLATIONS**

American College of Radiology

Fascicle, \$10.00 for ACR members, \$20.00 for non-members

Fascicles contain articles contributed by well known physicians, equipment manufacturers, and architectural firms and cover changing patterns of radiologic practices and organization of medical care facilities as well as a more traditional view of floor plans and equipment.

## **MAMMOGRAPHY, THERMOGRAPHY AND ULTRASONOGRAPHY IN BREAST DISEASE**

Evans, Kenneth T.

Butterworths Publishing, Inc.; 1973, out of print

In this monograph the authors have described and compared mammography, thermography and ultrasound in various breast disorders.

**OBSTETRICAL DIAGNOSIS BY RADIOGRAPHIC, ULTRASONIC, AND NUCLEAR METHODS**

Campbell, John A.  
Williams and Wilkins Company, 1977, \$32.00

**OBSTETRICS ILLUSTRATED**

Garrey, M.; Govan, A.; Hodge, C.; Callander, R.  
Churchill Livingstone Inc., (3rd Ed.), 1980, \$22.00

Among the many subjects discussed are fetoplacental monitoring, the early diagnosis of immaturity, and the combined use of amniotomy and oxytocin.

**OBSTETRIC ULTRASOUND: APPLICATIONS AND PRINCIPLES**

Van Bergen, William S. (Ed.)  
Addison-Wesley Publishing Co., Inc., 1980, \$21.95

This concise volume focuses on the obstetrical applications of the latest ultrasonic diagnostic methods. Strictly practical in its orientation, the book concentrates on basic principles and clinical situations.

**PRINCIPLES AND PRACTICES OF ULTRASONOGRAPHY IN OBSTETRICS AND GYNECOLOGY**

Sanders, Roger A.; Everette, James A.  
Appleton-Century-Crofts, (2nd Ed.), 1980, \$52.50

This revision includes extensive additional information, including an almost total changeover to gray-scale illustrations; comprehensive coverage of instrumentation; an in-depth examination of ultrasound's value in assessing congenital abnormalities; and a much greater emphasis on measurement techniques in obstetrics.

**ULTRASONIC DIAGNOSIS IN ECTOPIC PREGNANCY**

Maklad, Nabil F.  
Warren H. Green Publishers, Inc., 1981, \$27.50

This volume deals with all aspects of early pregnancy pertaining to the diagnosis of ectopic pregnancy. Techniques of ultrasonic scanning, and the normal sonographic anatomy of the pelvis are discussed in detail. The ultrasonic signs and criteria for diagnosis of ruptured and unruptured ectopic pregnancy are described and illustrated.

**ULTRASONICS IN EARLY PREGNANCY: DIAGNOSTIC SCANNING AND FETAL MONITORING ACTIVITY**

Reinold, E.  
S. Karger, 1976, \$35.50

**ULTRASONIC TOMOGRAPHY IN OBSTETRICS AND GYNECOLOGY**

Lock, E.G.  
S. Karger, 1973, \$24.00

**ULTRASONOGRAPHIC DIAGNOSIS IN OBSTETRICS AND GYNECOLOGY**

Schams, H.; Bretscher, J.  
Springer-Verlag, 1975, \$46.00

**ULTRASONOGRAPHIC PRESENTATION OF PREGNANCY**

Bayer, H.; Prenzlau, P.; Schulte, R.; Luder, R.  
Lippincott/Harper, 1979, \$10.00

The numerous B-scan ultrasonograms are accompanied by a text which expounds the principles of ultrasound; the applications and limitations of the technique in obstetric diagnosis; possible sources of error; and correlation of results with other clinical findings for accurate interpretation.

**ULTRASOUND IN GYNECOLOGY AND OBSTETRICS**

Hassani, S.N.  
Springer-Verlag, 1980, \$29.00

**ULTRASONOGRAPHY IN OBSTETRICS AND GYNECOLOGY**

Hobbins, John C.; Winsberg, Fred  
Williams and Wilkins Company, 1977, \$26.50

**ULTRASONOGRAPHY IN OBSTETRICS AND GYNECOLOGY**

Sanders, James  
Appleton-Century-Crofts, out of print

**ULTRASONOSCOPIC (REAL-TIME) DIFFERENTIAL DIAGNOSIS IN OBSTETRICS AND GYNECOLOGY**

Meudt, R.O.; Hinselmann, M.  
Springer-Verlag, 1978, \$61.00

**ULTRASOUND IN CLINICAL OBSTETRICS**

Garrett, William; Robinson, David  
Charles C. Thomas, Publisher, 1970, \$16.50

**ULTRASOUND IN CLINICAL OBSTETRICS**

Law, R.G.  
John Wright, PSG Inc., 1980, \$25.00

This book outlines the manner in which ultrasound can be used to solve many of the problems encountered by the clinician in the course of his everyday work. Emphasis is placed upon the basic value of diagnostic ultrasound as a means of visualizing and measuring structures within the body.

**ULTRASOUND IN HIGH-RISK OBSTETRICS**

Sabbagha, Rudy E.  
Lea and Febiger, 1979, \$11.00

This book presents an in-depth understanding of the clinical applications of diagnostic ultrasound in high-risk gravidas. The chapters discuss instrumentation, methodology, fetal age and growth, abnormalities of pregnancy and the placenta.

## **ULTRASOUND IN OBSTETRICS AND GYNECOLOGY**

Athey, P.; Hadlock, F.  
C.V. Mosby Company, 1981, \$49.50

## **ULTRASOUND IN OBSTETRICS AND GYNECOLOGY**

Popp, Lothar; Thomsen, Russell  
McGraw-Hill Book Company, 1978, out of print

Practical guide to the correct use and interpretation of sonography in obstetrics and gynecology.

## **WILLIAMS OBSTETRICS**

Hellman, L.S.; Pritchard, J.A.  
Appleton-Century-Crofts; 1980, \$49.50

This new edition of an outstanding text/reference reflects the most recent advances in obstetric care.

## **B. AUDIOVISUALS**

### **ANATOMY OF THE PELVIS AND FETUS**

Lyons, Edward  
American Institute of Ultrasound in Medicine  
46 - 35 mm slides with audio cassette, \$50.00

Cross-sectional pelvic anatomy of fetal cadaver specimens is correlated with ultrasound images. Early fetal stages are identified for recognition. Cranial measurements and various pathological entities of the fetus as well as pitfalls are demonstrated.

### **DATING OF PREGNANCY**

Dempsey, Peter J.  
American Institute of Ultrasound in Medicine  
47 - 35 mm slides with audio cassette, \$50.00

Parameters reflecting the sum of uterine and fetal growth, total uterine size, gestational sac volume, crown-rump lengths, abdominal and thoracic diameter and circumference, head to body ratios and biparietal diameter are discussed and correlated with menstrual and family history to assist in determining gestational age.

## **DIAGNOSTIC ULTRASOUND IN OBSTETRICS AND GYNECOLOGY**

Part 1 - Obstetrics

Sanders; Graham

Part 2 - Gynecology

Sanders; Scott

Medcom Products

60 - 35 mm slides with audio cassette, \$90.00 for each part

## **FETAL ANOMALIES**

Lyons, Edward A.  
American Institute of Ultrasound in Medicine  
64 - 35 mm slides with audio cassette, \$50.00

Malformations of the head, spine, thorax, heart, abdomen, urinary tract, and skeleton are among those fetal anomalies illustrated in this presentation. Persistence of an ultrasound abnormality on serial imaging ensures an accurate interpretation of the malformation.

## **HELPFUL AIDS IN DIAGNOSING ECTOPIC PREGNANCIES**

Gottesfeld, Kenneth  
American Institute of Ultrasound in Medicine  
66 - 35 mm slides with audio cassette, \$50.00

This presentation examines the ultrasonic findings which indicate ectopic pregnancy and adnexal masses.

## **INTRACRANIAL FETAL ANOMALY**

Johnson, Michael  
American Institute of Ultrasound in Medicine  
61 - 35 mm slides with audio cassette, \$50.00

Ultrasound permits excellent delineation of the intracranial fetal anatomy. Hydrocephalus and other lesions can be determined early and an example of intrauterine fetal shunting of hydrocephalus is illustrated. Real-time ultrasound depicting vascular pulsation aids in the localization of anatomic structures of the fetal brain.

## **MEASUREMENT DATA IN OBSTETRICAL ULTRASOUND**

Sanders  
Medcom Products  
60 - 35 mm slides with audio cassette, \$90.00

## **NEW TECHNIQUES TO DIAGNOSE INTRAUTERINE GROWTH ABNORMALITIES**

Sabbagha, Rudy  
American Institute of Ultrasound in Medicine  
20 - 35 mm slides with audio cassette, \$40.00

The importance and means of assessing fetal growth abnormalities is related to the high risk of central nervous system and other disorders with these findings. The sensitivity and specificity of these findings or combinations of findings are discussed.

## **NORMAL NEONATAL BRAIN ANATOMY**

Mack, Laurence

American Institute of Ultrasound in Medicine

33 - 35 mm slides with audio cassette, \$40.00

This audiovisual program presents a detailed correlation with multilabeled coronal and sagittal plane diagrams and tissue sections of the neonatal brain with corresponding state-of-the-art ultrasound images.

## **PLACENTA**

Fleischer, Arthur C.

American Institute of Ultrasound in Medicine

75 - 35 mm slides with audio cassette, \$60.00

This presentation describes the normal anatomy and development of the placenta. Senescent changes of the placenta, placenta previa types and diagnosis, abruptio placenta, and abnormally thick or thin placenta are included.

## **REAL-TIME IN THE CLINICAL SETTING**

Bartrum, Royal J.

American Institute of Ultrasound in Medicine

33 - 35 mm slides with audio cassette, \$40.00

This program presents an approach to real-time scanning which is organ oriented.

## **SAFETY OF OBSTETRICAL ULTRASOUND**

Kremkau, Frederick W.

American Institute of Ultrasound in Medicine

24 - 35 mm slides with audio cassette, \$40.00

This presentation discusses the extent of knowledge of the biological effects of ultrasound and explains that one should not expose the subject longer than needed for benefit and the intensity should be as low as possible. One should not hesitate to use diagnostic ultrasound with appropriate equipment and procedures, when benefit is expected.

## **ULTRASONIC DIAGNOSIS OF ECTOPIC PREGNANCY**

Lawson

Medcom Products

46 - 35 mm slides with audio cassette, \$90.00

## **ULTRASOUND EVALUATION OF THE NEONATAL BRAIN: TECHNIQUES OF EVALUATION**

Appareti, Kevin

American Institute of Ultrasound in Medicine

52 - 35 mm slides with audio cassette, \$40.00

Methods examining the infant brain are demonstrated using the articulated arm scanner as well as real time scanners. Diagrams illustrate the anatomy expected with various imaging planes. Artifacts and their causes are discussed.

## **ULTRASOUND IN OBSTETRICS AND GYNECOLOGY**

Winsberg, Fred

Radiological Society of North America, Inc.

35 mm slides with audio cassette, \$95.00

## **UPDATE ON PELVIC MASSES**

Sanders, Roger

American Institute of Ultrasound in Medicine

47 -35 mm slides with audio cassette, \$40.00

Illustrations of typical ultrasound patterns of various pelvic lesions are discussed. The use of ultrasound in tumor management is reviewed and its utilization is contrasted with other diagnostic modalities.

## 9. OPHTHALMIC IMAGING

### A. PUBLICATIONS

#### **OPHTHALMIC CONTACT - B-SCAN ULTRASONOGRAPHY**

Bronson; Fisher; Pickering; Trayner  
Williams and Wilkins Company, 1976, \$17.00

#### **REAL-TIME OPHTHALMIC ULTRASONOGRAPHY**

Hassani, Sam  
Springer-Verlag, 1978, \$43.00

#### **ULTRASONOGRAPHY OF THE EYE AND ORBIT**

Colenian, D. Jackson; Lizzie, Frederick L.; Jack, Robert L.  
Lea and Febiger, 1977, \$35.00

This book covers the principles, application, and display of ultrasonic energy; the application of these principles to the biometry of the eye; and ocular and orbital diagnosis, using numerous illustrations to demonstrate observations helpful in measuring and evaluating normal and abnormal tissues.

## 10. PEDIATRIC IMAGING

### A. PUBLICATIONS

#### **ATLAS OF ABDOMINAL ULTRASONOGRAPHY IN CHILDREN**

Gates, Garry F.  
Churchill Livingstone Inc., 1978, \$27.50

An atlas of ultrasonography directed exclusively to diseases of childhood. The radiologist, pediatrician or surgeon will find this a helpful reference to the clinical applications of abdominal ultrasonography in pediatric disease.

#### **ATLAS OF PEDIATRIC ECHOCARDIOGRAPHY**

Gutgesell, Howard P.; Paquet, Marc  
Harper and Row Publishers, 1978, \$25.00

This text expresses the feeling that echocardiography is a "visual art." It combines, in one volume, a collection of echocardiograms representing normal echocardiographic anatomy as well as a variety of cardiac disorders in children.

#### **ATLAS OF PEDIATRIC TWO-DIMENSIONAL ECHOCARDIOGRAPHY**

Duncan, Walter J.  
Charles C. Thomas, Publisher, 1981, \$19.75

#### **DIAGNOSTIC ULTRASOUND IN PEDIATRICS**

Haller, Jack O.; Shkolnik, Arnold  
Churchill Livingstone Inc., 1981, \$22.00  
(Vol. 8 of Clinics In Diagnostic Ultrasound)

Initial chapters discuss the role of ultrasound from the points of view of the pediatric surgeon and the pediatric urologist, providing a firm clinical framework for the following chapters.

#### **PEDIATRIC ECHOCARDIOGRAPHY**

Meyer, Richard A.  
Lea and Febiger, 1977, \$20.50

This book provides the echocardiographer with an in-depth approach to the evaluation of both congenital and acquired cardiac disease in patients from the newborn period to adulthood.

#### **PEDIATRIC ECHOCARDIOGRAPHY - CROSS-SECTIONAL, M-MODE, AND DOPPLER**

Rune-Lundstrom, Nils, Ed.  
Elsevier-North Holland, Inc., 1980, \$69.00

## **PEDIATRICS AND ADOLESCENT ECHOCARDIOGRAPHY**

Goldberg, Stanley J.; Allen, Hugh D.; Sahn, David, J.  
Year Book Medical Publishers, (2nd Ed.), 1980, \$39.50

Includes the latest in M-Mode, echo Doppler, contrast echocardiography and much more.

## **PEDIATRIC ULTRASOUND**

O'Haller, John; Schneider, Morton  
Year Book Medical Publishers, 1980, \$38.95

A complete presentation of the uses, advantages and capabilities of ultrasound as applied to pediatrics.

## **ULTRASONOGRAPHY OF PEDIATRIC SURGICAL DISORDERS**

Canty, T.G.; Leopold, G.R.; Wolf, D.A.  
Academic Press, 1982, \$49.50

Demonstrates to physicians caring for infants and children the great clinical usefulness of diagnostic ultrasound in both the diagnosis and follow-up of disease entities.

## **ULTRASOUND OF THE PEDIATRIC ABDOMEN AND PELVIS; A CORRELATIVE IMAGING APPROACH**

Kangerloo; Hooshang et al.  
Year Book Medical Publishers, 1980, \$45.00

Presents a systematic application of ultrasound and other radiographic modalities to the practical understanding and diagnosis of intraabdominal diseases in children.

## **ULTRASOUND IN PEDIATRICS**

Miskin, Murray  
Grune and Stratton, Inc., 1979, \$43.00

Comprehensive text which illustrates and analyzes the usefulness of diagnostic ultrasound in pediatric practice.

## **WORKBOOK IN PEDIATRIC ECHOCARDIOGRAPHY**

Allen, Hugh D.  
Year Book Medical Publishers, 1978, \$18.95

## **B. AUDIOVISUALS**

### **CT/ULTRASOUND CORRELATIVE BRAIN ANATOMY (NORMAL)**

Rumack, Carol  
American Institute of Ultrasound in Medicine  
41 - 35 mm slides, \$40.00

A comparison is made between computed tomography and ultrasound evaluation of the infant brain. Advantages and disadvantages of each modality are discussed.

**ECHOCARDIOGRAPHIC ASSESSMENT OF CONGENITAL AND ACQUIRED  
HEART DISEASE IN CHILDREN**

Children's Hospital of San Diego  
35 mm slides, contact hospital for details

**ECHOCARDIOGRAPHY IN PEDIATRIC PATIENTS: PRACTICAL APPLICATIONS**

Meyer, Richard  
American Institute of Ultrasound in Medicine  
43 - 35 mm slides, \$40.00

**PEDIATRIC B-MODE ULTRASONOGRAPHY: ABDOMINAL AND PELVIC**

Shkolnik, Arnold  
Radiological Society of North America  
35 mm slides, \$95.00

**PEDIATRIC B-MODE ULTRASONOGRAPHY: RENAL AND ADRENAL**

Shkolnik, Arnold  
Radiological Society of North America  
35 mm slides, \$95.00

**PEDIATRIC ULTRASOUND**

Haller, Friedman  
Medcom Products  
Part 1 - Abdominal Masses, 57 - 35 mm slides, \$35.00  
Part 2 - Pelvic Diseases, 52 - 35 mm slides, \$90.00  
Part 3 - Diseases of the Urinary Tract, 56 - 35 mm slides, \$90.00

## 11. PHYSICS

### A. PUBLICATIONS

#### **BASIC PHYSICS IN DIAGNOSTIC ULTRASOUND**

Rose, Joseph L.; Goldberg, Barry  
John Wiley and Sons, Inc., 1979, \$38.50

An introduction to principles of basic physics necessary for understanding diagnostic ultrasound. Designed for self-review and classroom use.

#### **ELEMENTARY PHYSICS**

Van Name; Flory  
Prentice Hall, Inc., (2nd Ed.), 1974, \$19.95

#### **FUNDAMENTALS OF ACOUSTICS**

Kinsler, L.E.; Frey, A.R., et al  
John Wiley and Sons, Inc., (3rd Ed.), 1982, \$25.95

A clear treatment of the fundamental principles underlying the generation, transmission, and reception of acoustic waves and their application to numerous fields.

#### **INTRODUCTION TO THE PHYSICS OF DIAGNOSTIC RADIOLOGY**

Christensen, E.E.; Curry, T.S.; Dowdy, J.E.  
Lea and Febiger, 1978, \$18.00

Contains essential aspects of physics and information on production and recording of data from radiographic examinations. Emphasis is given to factors which improve the quality of the recorded image.

#### **PHYSICAL BASIS OF MEDICAL IMAGING**

Coulam, Craig M.; Ereckson, Jon; Rollò, F. David  
Appleton-Century-Crofts, 1981, \$48.50

Following a practical rather than theoretical approach, this book details current medical imaging methods.

#### **PHYSICAL PRINCIPLES OF ULTRASONIC DIAGNOSIS**

Wells, Peter N.T.  
Academic Press, 1969, \$45.00

#### **PHYSICAL PRINCIPLES OF ULTRASONIC TECHNOLOGY**

Rozenberg, L.D.  
Plenum Publishing, 1973, Vol. 1 \$49.50, Vol. 2 \$47.50

#### **PHYSICAL ULTRASONICS**

Beyer, Robert Thomas; Letcher, Stephen V.  
Academic Press, 1969, \$63.00

## **ULTRASONIC BIOPHYSICS**

Dunn, Floyd; O'Brien, William D.  
Academic Press, 1976, \$56.00

## **ULTRASONIC METHODS IN SOLID STATE PHYSICS**

Truell, Rohn  
Academic Press, 1969, \$61.00

## **B. AUDIOVISUALS**

### **PHYSICS OF RADIOLOGY SERIES - DIAGNOSTIC ULTRASOUND PHYSICS - A BRIEF REVIEW**

Real Time Imaging and Doppler Ultrasound - PM 34-35  
Ziskin, Marvin C.

Status Report on Diagnostic Ultrasound Safety - PM 36  
Kremkau, Fredrick W.

Ultrasound Physics and Static Imaging - PM 31-33  
Goldstein, Albert

Radiological Society of North America, Inc.  
35 mm slides with audio cassette, \$185.00

### **PHYSICS: WHAT EVERY CLINICIAN SHOULD KNOW**

Kremkau, Frederick W.  
American Institute of Ultrasound in Medicine  
52 - 35 mm slides with audio cassette, \$50.00

Defines ultrasound, frequency, pulse length, and intensity. Various tissue interactions include propogation speed, attenuation, reflection, refraction, and scattering.

### **SCATTERING IN PULSE-ECHO ULTRASOUND**

Carson, Paul L.  
American Institute of Ultrasound in Medicine  
17 - 35 mm slides with audio cassette, \$50.00

The compressibility, density and impedance of tissue affecting scattering, as well as the types of scattering media are discussed and illustrated.

## 12. QUALITY ASSURANCE

### A. PUBLICATIONS

#### **AIUM/NEMA SAFETY STANDARD FOR DIAGNOSTIC ULTRASOUND EQUIPMENT**

American Institute of Ultrasound in Medicine, 1979, AIUM Members \$4.00, Non-Members \$8.00

Defines labelling and measurement requirements for ultrasonic diagnostic equipment and provides background information for safety considerations.

#### **IMPLEMENTATION OF A QUALITY ASSURANCE PROGRAM FOR ULTRASOUND B-SCANNERS**

Bureau of Radiological Health  
National Technical Information Service, PB 138-340/AS, 1980, \$7.50

This is a manual intended for the practitioner and operator of diagnostic ultrasound B-scanning equipment, and is designed to guide the user in analyzing and improving the quality of information obtained.

#### **QUALITY ASSURANCE IN DIAGNOSTIC ULTRASOUND**

American Institute of Ultrasound in Medicine, 1980, AIUM Members \$5.00, Non-Members, \$10.00

A guide to insure peak performance of ultrasound equipment. Topics covered include basic equipment operation, preventative maintenance programs and system performance and testing procedures.

#### **QUALITY ASSURANCE IN DIAGNOSTIC ULTRASOUND - A MANUAL FOR THE CLINICAL USER**

Bureau of Radiological Health  
Superintendent of Documents, U.S. Government Printing Office  
No. 017-015-00179-2, 1981, \$4.00

This volume is to be used as a manual for the practitioner and operator of diagnostic ultrasound B-scanning equipment. Techniques and recommendations for taking corrective measures, discussions on the basic physics of ultrasound applications, and information on testing equipment are included.

#### **STANDARD 100 MILLIMETER TEST OBJECT MANUAL**

American Institute of Ultrasound in Medicine, AIUM Members \$3.00, Non-members \$6.00

Defines the AIUM Standard 100 millimeter test object and the procedures for its use.

## **STANDARD SPECIFICATION OF ECHOSCOPE SENSITIVITY AND NOISE LEVEL**

American Institute of Ultrasound in Medicine, AIUM Members \$3.00, Non-members \$6.00

Provides a definition of echoscope sensitivity and noise level and a procedure for determining these parameters.

### **B. AUDIOVISUALS**

#### **OPTIMAL SELECTION OF EQUIPMENT AND TRANSDUCERS**

Goldstein, Albert

American Institute of Ultrasound in Medicine

35 - 35 mm slides with audio cassette, \$50.00

This audiovisual program explores image resolution and water bag techniques as they impact upon pediatric or neonatal imaging. Discussions of spatial and echo amplitude resolution, the importance of near field length and focal capabilities of transducers, and the effect of water bag techniques and their application are included.

#### **QUALITY ASSURANCE: THE FOCUS IS ON YOU**

Goldberg, Barry B.; Pinkney, M. Nathan

Nuclear Associates, Inc.

80 - 35 mm slides with cassette, \$125.00

Provides a foundation for implementing a quality assurance program in the diagnostic ultrasound department.

#### **QUALITY CONTROL**

Carson, Paul L.

American Institute of Ultrasound in Medicine

32 - 35 mm slides with audio cassette, \$50.00

This program discusses and illustrates such quality control procedures as biweekly and daily testing, the use of test phantoms, and checks on arm rigidity and electrical safety.

#### **ULTRASOUND INSTRUMENTATION**

Winsberg, Fred

Radiological Society of North American

35 mm slides with audio cassette, \$95.00

## **C. TRAINING AIDS**

### **AIUM STANDARD 100 MM TEST OBJECT**

Nuclear Associates, Inc., \$310.00

This equipment offers a convenient and effective means of assessing the calibration of ultrasound systems. Routine equipment checks can be performed in minutes.

Also available from

Medcorp

Ross Chemical Manufactures and Consultants

Fred S. Dunning Company

Ultracal, Inc.

### **DIAGNOSTIC ULTRASOUND POWER METER**

Nuclear Associates, Inc., \$2350.00

This unit permits measurements of the average acoustic power produced. Users can evaluate the effects of system control settings and particular transducers and choose the combination that provides diagnostic images with the least exposure to patients.

### **MINIATURE HYDROPHONE PROBE**

Nuclear Associates, Inc., \$1950.00

This instrument consists of a submersible piezoelectric polymer probe with an integral pre-amplifier. When connected to an appropriate display device, the hydrophone may be used to obtain ultrasound intensity measurements and beam profiles.

### **MULTI-LUX ILLUMINATOR**

Nuclear Associates, Inc., \$140.00

The "Multi-Lux" provides multi-image camera users with bright, evenly-diffused light in a space-saving configuration which can be used in nuclear medicine, CT and ultrasound departments.

### **MULTI-PURPOSE TISSUE/CYST PHANTOM**

Nuclear Associates, Inc., \$895.00

This phantom is used for evaluating system/transducer performance of all types of imaging instruments, including small part scanners. It simulates liver tissue scattering and attenuation, includes cyst-like and solid structures of varying sizes and provides resolution targets of varying reflectivity at several depths.

### **S.U.A.R. TEST OBJECT**

Dubuque, Gregory L.; Carson, Paul L.  
Nuclear Associates, Inc., \$265.00

This test object measures axial resolution, relative sensitivity and uniformity. It includes an internal thermometer, testing protocol and suggested control settings for many systems and can be used with all B-scanners and most real-time systems.

### **TISSUE EQUIVALENT ULTRASOUND PHANTOMS**

RMI, Inc.

Model 410 - Resolution and B-Scan Uniformity Phantom, \$545.00

Model 411 - "Cyst" Phantom, \$450.00

Model 412 - Resolution, Registration, Profile, and Sensitivity Phantom, \$795.00

Model 413 - Linear Array Phantom, \$795.00

Model 420 - Test Object Geometry, \$245.00 (S.U.A.R. Test Object)

### **ULTRASOUND CONTRAST - DETAIL TEST OBJECT**

Nuclear Associates, Inc.

No price available, inquire from company

### **ULTRASOUND TEST GENERATOR**

Nuclear Associates, Inc., \$645.00

This AC-operated instrument provides the means to evaluate ultrasound system performance rapidly and accurately. It is compatible with all A, B, and M mode equipment.

### **ULTRASOUND TISSUE-EQUIVALENT PHANTOM**

Nuclear Associates, Inc., \$395.00

This phantom provides a medium that exhibits ultrasonic responses similar to those encountered in human liver imaging. The medium contains target rods in the AIUM Test Object format for the evaluation of ring down, sensitivity (penetration), resolution, depth marker accuracy, and registration.

### 13. REFERENCE

#### A. PUBLICATIONS

##### **AIUM MEDICAL ULTRASOUND BIBLIOGRAPHY**

American Institute of Ultrasound in Medicine, 1981, AIUM Member \$4.00,  
Non-member \$8.00

Current listing of available ultrasound related monographs and books organized under fourteen anatomical categories, physics, instrumentation and facility planning for quick reference. It also contains the addresses of all medical ultrasound publishing companies.

##### **DIAGNOSTIC MEDICAL ULTRASOUND EXAMINATION REVIEW**

Kocheril, George; Miskovits, Christine; Peters, Bruce  
Medical Examination Publishing Co., Inc., 1983, \$22.50

##### **DORLAND'S ILLUSTRATED MEDICAL DICTIONARY**

W.B. Saunders Company, (26th Ed.), 1981, \$29.50  
Thumb-indexed, \$34.50

##### **INDEX TO SELECTED ACOUSTIC AND RELATED REFERENCES**

Bureau of Radiological Health  
National Technical Information Service, PB 120-967/AS, 1979, \$28.50

This index was developed to provide a pooled set of references pertaining to uses, measurement, and effects of acoustic energy with special emphasis in the area of ultrasound.

##### **INDEX FOR ULTRASOUND DIAGNOSIS**

American Institute of Ultrasound in Medicine, 1979, AIUM member \$3.00,  
Non-member \$6.00

##### **LANGUAGE OF MEDICINE**

Chabner, Davi-Ellen  
W.B. Saunders Company, (2nd Ed.), 1981, \$16.95

This textbook teaches the basic elements of medical language - combining forms, prefixes and suffixes - so that the student can analyze new words as they are encountered and discern their meanings.

##### **MEDICAL TERMINOLOGY: A PROGRAMMED TEXT**

Smith, Genevieve L.  
John Wiley and Sons, Inc., (4th Ed.), 1981, \$14.50

##### **MERCK MANUAL**

Berkow, Robert (Ed.)  
Merck and Co., Inc., (14th Ed.), 1982, \$19.75

### **PHYSICIANS' DESK REFERENCE**

Baker, Charles E., Jr.  
Medical Economics Company, 1982, \$15.95

### **PHYSICIANS' SYLLABUS**

American Institute of Ultrasound in Medicine, AIUM member \$3.00, Non-member \$6.00

Prepared to provide a guide to educational content for physicians in ultrasound training.

### **PROCEEDINGS OF 1981 AIUM/SDMS ANNUAL CONVENTION**

American Institute of Ultrasound in Medicine, AIUM Members \$8.00, Non-members \$16.00

One page abstracts of the presentations given at the annual convention. Includes scientific papers, works in progress, scientific exhibits and poster sessions. Proceedings from previous years also available at same cost.

### **RECOMMENDED NOMENCLATURE, PHYSICS AND ENGINEERING**

American Institute of Ultrasound in Medicine, 1979, AIUM Members \$4.00, Non-members \$8.00

A listing of the terminology (with definitions) used in diagnostic ultrasound compiled to provide a basis for more precise communication between users, researchers, designers and manufacturers of ultrasound equipment. Also includes an appendix relating to ultrasound tissue signatures.

### **SONIC EXCHANGE - 1981**

American Institute of Ultrasound in Medicine, AIUM Members \$5.00, Non-members \$10.00

Annual buyer's guide to equipment, products and services available in the field of diagnostic ultrasound. Published by the AIUM in cooperation with the commercial organizations of the industry.

### **STANDARD PRESENTATION AND LABELING**

American Institute of Ultrasound in Medicine, AIUM Members \$3.00, Non-members \$6.00

Provides conventions in presentation and labeling of tomographic images which will aid in training and communication in ultrasound and other medical imaging.

### **TABER'S CYCLOPEDIA MEDICAL DICTIONARY**

Thomas, Clayton L.  
F.A. Davis Company, (14th Ed.), 1981, Indexed \$17.50, not Indexed \$14.95

**ULTRASOUND REVIEW QUESTIONS BOOK**

McClary, Ann; McNamara, Cathy  
(2nd Ed.), \$10.00

See Directory of Sources  
Ultrasound Review Questions

## 14. MISCELLANEOUS

### A. PUBLICATIONS

#### **BASIC MEDICAL TECHNIQUES AND PATIENT CARE FOR RADIOLOGIC TECHNOLOGISTS**

Torres, Lillian S.; Moore Carol M.  
Lippincott/Harper, 1978, \$15.50

This text explains the basic medical and nursing procedures that may be utilized by radiologic technologists, including both those that require medical aseptic technique only, and those requiring sterile or surgical aseptic technique.

#### **CLINICAL DIAGNOSIS AND MANAGEMENT**

Henry, John Bernard  
W.B. Saunders Company, (16th Ed.), 1979,  
Vol. 1 and 2, each \$32.50

#### **CLINICAL IMPLICATIONS OF LABORATORY TESTS**

Tilkian, Canover  
C.V. Mosby Company, (2nd Ed.), 1979, \$14.50

#### **INTRODUCTION TO DESIGNING AND CONDUCTING RESEARCH**

Drew, Clifford  
C.V. Mosby Company, 1980, \$17.95

#### **INTRODUCTION TO HUMAN DISEASE**

Kent, Thomas H.; Hart, Michael N.; Shires, Thomas K.  
Appleton-Century-Crofts, 1979, \$16.95

Presents information on the overall frequency and significance of disease and diagnostic approaches, including laboratory resources. The authors report on the basic pathologic processes common to most disease.

#### **INTRODUCTION TO THE STUDY OF DISEASE**

Boyd, William; Sheldon, Huntington  
Lea and Febiger, (8th Ed.), 1980, \$19.75

This text presents a contemporary, up-to-date view of disease - its etiology, pathophysiology and techniques of diagnosis.

#### **MANUAL OF ECHOENCEPHALOGRAPHY**

Uematsu, Sumio; Walker, Earl  
Robert E. Krieger Publishing Company, Inc., 1971, \$13.50

#### **NON-INVASIVE CLINICAL MEASUREMENT**

Taylor, David  
University Park Press, 1977, \$39.50

**PATIENT CARE IN RADIOGRAPHY**

Ehrlich

C.V. Mosby Company, 1981, \$14.95

**PRIMER OF CLINICAL SYMPTOMS**

Taylor, R.B.

Harper and Row Publishers, 1973, out of print

Analyzes common medical complaints in a simple, nontechnical style, examining probable and possible causes.

## 15. DIRECTORY OF SOURCES

### PUBLISHERS

Academic Press  
111 Fifth Avenue  
New York, New York 10003

Addison-Wesley Publishing Co., Inc.  
Jacob Way  
Reading, Massachusetts 01867

American College of Radiology  
Commission on Radiologic Units  
and Standards  
20 North Wacker Drive  
Chicago, Illinois 60606

American Institute of Ultrasound  
in Medicine  
4405 East-West Highway  
Suite 504  
Bethesda, Maryland 20814

Appleton-Century-Crofts  
c/o Prentice-Hall, Inc.  
Order Department  
Englewood Cliffs, New Jersey 07632

Bobbs-Merrill Company, Inc.  
4300 West 62nd Street  
Indianapolis, Indiana 46268

Wm. C. Brown Company Publishers  
2460 Kerper Boulevard  
Dubuque, Iowa 52001

Butterworths Publishing, Inc.  
10 Tower Office Park  
Woburn, Massachusetts 01801

Catholic Health Association  
of the United States  
c/o Publications Department  
1438 South Grand Boulevard  
St. Louis, Missouri 63104

Churchill Livingstone, Inc.  
19 West 44th Street, Suite 501  
New York, New York 10036

CIBA Pharmaceutical Company  
Medical Education Division  
Division of CIBA - GEIGY Corporation  
Summit, New Jersey 07901

Crane Russak and Company, Inc.  
347 Madison Avenue  
New York, New York 10017

CRC Press, Inc.  
2000 N.W. 24th Street  
Boca Raton, Florida 33431

E.A. Davis Company  
1915 Arch Street  
Philadelphia, Pennsylvania 19103

Marcel Dekker, Inc.  
270 Madison Avenue  
New York, New York 10016

Elsevier North Holland, Inc.  
52 Vanderbilt Avenue  
New York, New York 10017

Focal Press, Inc.  
10 East 40th Street  
New York, New York 10016

Warren H. Green Publishers, Inc.  
10 South Brentwood Boulevard  
St. Louis, Missouri 63105

Grune and Stratton, Inc.  
111 5th Avenue  
New York, New York 10003

G.K. Hall and Company  
Medical Publications Division  
70 Lincoln Street  
Boston, Massachusetts 02111

Harper and Row Publishers  
Medical Department  
2350 Virginia Avenue  
Hagerstown, Maryland 21740

Haworth Press  
28 East 22nd Street  
New York, New York 10010

Heyden and Son, Inc.  
247 South 41st Street  
Philadelphia, Pennsylvania 19104

Johns Hopkins University Press  
Charles and 34th  
Baltimore, Maryland 21218

Igaku-Shoin Medical Publications  
50 Rockefeller Plaza  
New York, New York 10020

Inter Med Communications, Inc.  
132 Welsh Road  
Horsham, Pennsylvania 19044

S. Karger  
Distributed by Albert J. Phiebig, Inc.  
P.O. Box 352  
White Plains, New York 10602

Kluwer Boston, Inc.  
160 Old Derby Street  
Hingham, Massachusetts 02043

Robert E. Krieger Publishing  
Company, Inc.  
P.O. Box 542  
Huntington, New York 11743

Lange Medical Publications  
Drawer Lane  
Los Altos, California 94022

Lea and Febiger  
600 South Washington Square  
Philadelphia, Pennsylvania 19106

Lippincott/Harper  
East Washington Square  
Philadelphia, Pennsylvania 19105

Little, Brown and Company  
Medical Division  
34 Beacon street  
Boston, Massachusetts 02106

Macmillan Publishing Co., Inc.  
Front and Brown Streets  
Riverside, New Jersey 08075

Masson Publishing USA, Inc.  
14 East 60th Street  
New York, New York 10022

McGraw-Hill Book Company  
Princeton Hightstown Road  
Hightstown, New Jersey 08520

Medical College of Virginia  
Peripheral Vascular Laboratory  
Department of Surgery  
Noninvasive Peripheral Vascular  
Laboratory  
Box 221 MCV Station  
Richmond, Virginia 23298

Medical Economics Company  
Book Division  
680 Kinderkamack Road  
Oradell, New Jersey 07649

Medical Examination Publishing Co., Inc.  
969 Stewart Avenue  
Garden City, New York 11530

Merck and Co., Inc.  
Publications Dept. 32-62  
P.O. Box 2000  
Rahway, New Jersey 07065

C.V. Mosby Company  
11830 Westline Industrial Drive  
St. Louis, Missouri 63141

National Technical Information Service  
5285 Port Royal Road  
Springfield, Virginia 22161

Noyes Data Corporation  
Mill Road at Grand Avenue  
Park Ridge, New Jersey 07656

Oxford University Press, Inc.  
1600 Pollitt Drive  
Fair Lawn, New Jersey 07410

Pergamon Press, Inc.  
Maxwell House, Fairview Park  
Elmsford, New York 10523

Plenum Publishing  
227 West 17th Street  
New York, New York 10011

Prentice-Hall, Inc.  
Route 9W  
Englewood Cliffs, New Jersey 07632

PSG Publishing Co., Inc.  
545 Great Road  
Littleton, Massachusetts 01460

G.P. Putman and Sons  
200 Madison Avenue  
New York, New York 10016

W.B. Saunders Company  
Customer Service  
218 West Washington Square  
Philadelphia, Pennsylvania 19105

Charles B. Slack, Inc.  
6900 Grove Road  
Thorofare, New Jersey 08086

Society of Diagnostic Medical Sonographers  
P.O. Box 31782  
Dallas, Texas 75231

Springer Publishing Company  
200 Park Avenue South  
New York, New York 10003

Springer-Verlag  
Customer Service  
175 Fifth Avenue  
New York, New York 10010

Superintendent of Documents  
U.S. Government Printing Office  
Washington, D.C. 20402

Charles C. Thomas, Publisher  
301-327 East Lawrence Avenue  
Springfield, Illinois 62717

Ultrasound Review Questions  
P.O. Box 2571  
Littleton, Colorado 80161

University Park Press  
233 East Redwood Street  
Baltimore, Maryland 21202

Urban Schwartzenberg  
7 East Redwood Street  
Baltimore, Maryland 21202

Van Nostrand, D., Co.  
135 West 50th Street  
New York, New York 10020

John Wiley and Sons, Inc.  
1 Wiley Drive  
Somerset, New Jersey 08873

Williams and Wilkins Company  
428 East Preston Street  
Baltimore, Maryland 21201

World Health Organization  
c/o Dr. E. Komarov  
Division of Environmental Health  
1211 Geneva 27 Switzerland

John Wright, PSG Inc.  
545 Great Road  
P.O. Box 6  
Littleton, Massachusetts 01460

Year Book Medical Publishers  
35 East Wacker Drive  
Chicago, Illinois 60601

## PRODUCERS OF AUDIOVISUALS

American Institute of Ultrasound  
in Medicine  
4405 East-West Highway  
Suite 504  
Bethesda, Maryland 20814

Beckman Instruments, Inc.  
2500 Harbor Boulevard  
Fullerton, California 92634

Children's Hospital of San Diego  
8001 Frost Street  
San Diego, California 92123  
ATTN: Dr. J.B. Waldeman, Chief of  
Cardiology or Dr. Lily George,  
Director of Cardiology

Concept Media  
P.O. Box 19542  
Irvine, California 92714

Educational Reviews, Inc.  
6801 Cahaba Valley Road  
Birmingham, Alabama 35243

Grossmont College  
8800 Grossmont College Drive  
El Cajon, California 92020  
ATTN: W.E. Dellegar, Sc.D., Director  
Cardiopulmonary Technology Program

Medcom Products  
1633 Broadway  
New York, New York 10019

Medical College of Virginia  
Peripheral Vascular Laboratory  
Department of Surgery  
Noninvasive Peripheral Vascular Laboratory  
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