

---

# Get Free L Introduction To Vascular Ultrasonography 6th Edition

---

Getting the books **L Introduction To Vascular Ultrasonography 6th Edition** now is not type of inspiring means. You could not unaided going in the same way as books increase or library or borrowing from your friends to read them. This is an totally simple means to specifically get guide by on-line. This online publication L Introduction To Vascular Ultrasonography 6th Edition can be one of the options to accompany you later having other time.

It will not waste your time. take me, the e-book will unconditionally expose you other concern to read. Just invest little times to entry this on-line proclamation **L Introduction To Vascular Ultrasonography 6th Edition** as without difficulty as evaluation them wherever you are now.

---

## **4B1 - SARIAH SULLIVAN**

---

Practical Peripheral Vascular Intervention, Second Edition is a how-to guide to state-of-the-art vascular interventional procedures for all arteries and veins outside the coronary vascular system. Chapters on each artery cover indications for interventional procedures, vascular anatomy, access, diagnostic angiography, and specific interventional techniques used by experienced practitioners. This thoroughly updated edition includes an expanded section on intracranial stenting, additional material on venous filters, venous thrombosis,

and central venous occlusion, and more chapters reviewing all cardiac noninvasive modalities. More than 300 large-size illustrations show trainees and clinicians the best approach to treatment.

This core text focuses on the two main divisions within sonography: general/abdominal and obstetric/gynecologic. It also provides coverage of vascular ultrasound and an introduction to echocardiography. While the abdominal and vascular sections are organized by body systems, OB/GYN uses a chronologic approach to development during pregnancy and an anatomic

approach to gynecologic pathology. Each chapter covers patient history; normal anatomy, including cross-sectional anatomy; ultrasound techniques; pathology; and related laboratory findings.

This bestselling volume in The RequisitesT Series provides a comprehensive introduction to timely ultrasound concepts, ensuring quick access to all the essential tools for the effective practice of ultrasonography. Comprehensive yet concise, Ultrasound covers everything from basic principles to advanced state-of-the-art techniques. This title perfectly fulfills the ca-

reer-long learning, maintenance of competence, reference, and review needs of residents, fellows, and practicing physicians. Covers the spectrum of ultrasound use for general, vascular, obstetric, and gynecologic imaging. Fully illustrated design includes numerous side-by-side correlative images. Written at a level ideal for residents seeking an understanding of the basics, or for practitioners interested in life-long learning and maintenance of competence. Extensive boxes and tables highlight differential diagnoses and summarize findings. "Key Features" boxes offer a review of key information at the end of each chapter. Explore extensively updated and expanded content on important topics such as practical physics and image optimization, the thyroid, salivary glands, bowel, musculoskeletal system, cervical nodal disease, ectopic pregnancy, early pregnancy failure, management of asymptomatic adnexal cysts, practice guidelines - and a new chapter on fetal chromosome abnormalities. Visualize the complete spectrum of diseases with many new and expanded figures of anatomy and pathology, additional correlative imaging, and new schematics demonstrating important concepts and

findings. Further enhance your understanding with visual guidance from the accompanying electronic version, which features over 600 additional figures and more than 350 real-time ultrasound videos. Expert Consult eBook version included with purchase. The enhanced eBook experience allows you to view the additional images and video segments and access all of the text, figures, and suggested readings on a variety of devices.

The use of neurovascular ultrasound is of increasing importance in neurological practice, both for radiologists and increasingly by neurologists themselves. Written by the world's most renowned expert, this book explains ultrasound examination of a stroke patient scanning protocols interpretation of the results Case examples (with a standard template presentation correlating presentation to waveform output) reinforce the book's practical nature. Illustrated with photos of the tests, explanations, and with actual waveforms, images, and result interpretation, and enhanced with 'pearls' and 'avoiding pitfalls' features, it is a practical reference for those learning ultrasound as well as those using ultrasound in their practices.

The Workbook companion to Inside Ultrasound Vascular Reference Guide

Abdominal Imaging, a title in the Expert Radiology Series, edited by Drs. Dushyant Sahani and Anthony Samir, is a comprehensive reference that encompasses both GI and GU radiology. It provides richly illustrated, advanced guidance to help you overcome the full range of diagnostic, therapeutic, and interventional challenges in abdominal imaging and combines an image-rich, easy-to-use format with the greater depth that experienced practitioners need. Select the best imaging approaches and effectively interpret your findings by comparing them to thousands of images that represent every modality and every type of abdominal imaging. Find detailed, expert guidance on all diagnostic, therapeutic, and interventional aspects of abdominal imaging in one authoritative source, including challenging topics such as Oncologic Assessment of Tumor Response and How to Scan a Difficult Patient. Efficiently locate the information you need with a highly templated, well-organized, at-a-glance organization.

An official publication of the Society for Vascular Nursing, the Second Edition of

the Core Curriculum for Vascular Nursing provides the core knowledge needed by the novice entering the specialty. It also serves as a manual for the nursing instructor, a study guide for cardiovascular certification, and a reference for the experienced vascular clinician caring for the challenging vascular patient. Topics include the evolution of vascular nursing, vascular assessment and diagnosis, vascular nursing research, and guideline-directed medical, endovascular and surgical therapy for the treatment of carotid artery stenosis, aortic aneurysm, renal artery stenosis, vascular access, venous disease, vascular trauma, amputations, and lymphedema. This atlas is a thorough, user-friendly guide to interpreting diagnostic ultrasound images of the vasculature and blood flow in the neck. Featuring 177 sonographic images from actual cases, the book demonstrates a broad range of clinical findings and explains the underlying pathophysiology. Each chapter begins with an overview of a particular type of finding and then presents sonographic images from cases, with detailed legends and comments on the diagnosis. Bulleted lists of "Pearls and Pitfalls" based on the authors' extensive ex-

perience follow the case examples. Each chapter ends with multiple-choice questions and answers to aid in study and board review.

This book is designed as a definitive report on current capabilities of ultrasound imaging and Doppler evaluation of the cerebral circulation, both extracranial and intracranial. The basic chapters are directed to the beginner in ultrasound and hemodynamics and for the expert in updating newly available modalities and techniques new to the field. The ultrasonic and hemodynamic principles are presented for physicians and vascular technologists in a practical way to avoid unnecessary mathematics. The aim is for maximum clinical utilization so that available equipment may be used more efficiently and provide more accurate diagnosis. The selection of authors represents a wide range of the expertise available in the world today. M.P. Spencer Contents Preface V Contributors IX 1. Introduction 1 Merrill P. Spencer, M.D. 2. Ultrasound physical concepts 7 Merrill P. Spencer, M.D., Ronald E. Hileman, Ph.D., John M. Reid, Ph.D. 3. Doppler instrumentation 29 Robert S. Reneman, MD., Ph.D., A.P.G. Hoeks, Ph.D.

4. Normal anatomy, anatomical anomalies and collateral Pathways of the blood supply to the brain 43 Robert Ackerstaff, M.D. 5. Normal blood flow in the arteries 57 Merrill P. Spencer, M.D. 6. Normal physiology and pathophysiology of human cerebral blood flow ~ P.C.M. Mosmans, M.D., E.J. Jonkman, M.D.

This book provides an understanding of the underlying scientific principles in the production of B-mode and Colour Flow imaging and Spectral Doppler sonograms. A basic description of common vascular diseases is given along with a practical guide as to how ultrasound is used to detect and quantify the disease. Possible treatments of common vascular diseases and disorders are outlined. Ultrasound is often used in post-treatment assessment and this is also discussed. The role of ultrasound in the formation and follow-up of haemodialysis access is a growing field and is covered in detail. Practical step-by-step guide to peripheral vascular ultrasound. Explains the basic scientific principles of ultrasound instrumentation and blood flow. Fully illustrated with 175 black and white scans, 150 colour scans and 220 black and white and colour line drawings.

Contributions from leading names in peripheral vascular ultrasound. Accompanying DVD includes cine loops of ultrasound scans in normal and diseased vessels and of optimum scans to show potential pitfalls and common mistakes. Four new chapters and two new contributors, both clinical lecturers in vascular ultrasound. New chapter on treatment techniques of particular interest to vascular surgeons who increasingly are required to learn basic scanning skills. Sections on ultrasound instrumentation updated to cover new developments in equipment such as broadband colour imaging. Current practices in all the vascular ultrasound applications covered are reviewed and updated.

Now in its 6th edition, *Introduction to Vascular Ultrasonography*, by Drs. John Pellerito and Joseph Polak, provides an easily accessible, concise overview of arterial and venous ultrasound. A new co-editor and new contributors have updated this classic with cutting-edge diagnostic procedures as well as new chapters on evaluating organ transplants, screening for vascular disease, correlative imaging, and more. High-quality images, videos, and online access make this an ideal introduction to this com-

plex and rapidly evolving technique. Find information quickly with sections organized by clinical rationale, anatomy, examination technique, findings, and interpretation. Get a thorough review of ultrasound vascular diagnosis, including peripheral veins and arteries, carotid and vertebral arteries, abdominal vessels, and transcranial Doppler. Quickly reference numerous tables for examination protocols, normal values, diagnostic parameters, and ultrasound findings for selected conditions. Visualize important techniques with hundreds of lavish line drawings and clinical ultrasound examples. Stay current with trending topics through new chapters on evaluation of organ transplants, screening for vascular disease, correlative imaging, and accreditation and the vascular lab. Experience clinical scenarios with vivid clarity through new color ultrasound images. Watch vascular ultrasound videos and access the complete contents online at [www.expertconsult.com](http://www.expertconsult.com). Benefit from the fresh perspective and insight of a new co-editor, Dr. Joseph Polak. Improve your understanding of the correlation of imaging results with treatment goals in venous and arterial disease. Learn the principles of vas-

cular ultrasonography from the most trusted reference in the field.

*Principles of Vascular and Intravascular Ultrasound*-a title in the *Principles of Cardiovascular Imaging* series-has everything you need to successfully obtain and interpret vascular ultrasound images. Stuart J. Hutchison-a premier cardiac imaging specialist-explains the dos and don'ts of ultrasound so you get the best images and avoid artifacts. Get only the coverage you need with clinically oriented, practical information presented in a consistent format that makes finding everything quick and easy. High-quality images and access to the full text and more online at [expertconsult.com](http://expertconsult.com) make this the one vascular ultrasound resource that has it all. Features access to the full text, an image library, and moving images online at [expertconsult.com](http://expertconsult.com) where you can search and download additional content. Focuses on clinically oriented and practical information so that you get only the coverage that you need. Explains how to obtain the best image quality and avoid artifacts through instructions on how to and how not to perform vascular ultrasound. Provides excellent visual guidance through high-quality im-

ages-many in color-that reinforce the quality of information in the text. Includes numerous tables with useful values and settings to help you master probe settings and measurements. Presents material in a consistent format that makes it easy to find information. Your purchase entitles you to access the web site until the next edition is published, or until the current edition is no longer offered for sale by Elsevier, whichever occurs first. Elsevier reserves the right to offer a suitable replacement product (such as a downloadable or CD-ROM-based electronic version) should access to the web site be discontinued.

"Keeping pace with the technical advancements and broadening capabilities of vascular ultrasound can be a challenge. This comprehensive, how-to guide delivers both the technical know-how and the analytical skills you need to obtain clinically relevant results and sharpen your interpretive skills. Inside you'll discover detailed coverage of abdominal vasculature, peripheral arteries, hemodialysis and bypass grafts, peripheral veins, penile vessels, and the cerebrovascular system -- all presented in a structured chapter format that

makes sure you never miss step!"--Jaquette du livre.

In recent years, "diabetic foot" has become the common name given to chronic complications of diabetes mellitus in the lower limb. This book provides an up-to-date picture of the clinical scenario, the latest understanding of the mechanisms in regard to pathology, the current standards of therapy, and the organizational tasks that a modern approach to such a complex pathology warrants. All contributors have delivered articles that are as informative and straight-to-the point as possible, including not only their own experience in the field, but also giving a wider picture to link each article to the other. The Diabetic Foot Syndrome is not only relevant to specialists, but also to all the caregivers involved in the management of the patients at risk for developing the pathology, those affected, and those who are at risk of recurrences.

Written by an internationally recognized pioneer in duplex scanning, this book shows readers how to use this technique in evaluating patients with arterial and venous disease. This new Third Edition is broader in scope and more clinical in focus, with spe-

cific guidelines on the indications for testing and practical advice on how to perform the examination and interpret the results. New images--including more than 100 full-color Doppler scans--give the book a fresh, state-of-the-art look. Ten experts from the University of Washington have been invited to contribute to this edition, adding their clinical experience and insights. A Brandon-Hill recommended title.

Part of the highly regarded Diagnostic Medical Sonography series, Ann Marie Kupinski's *The Vascular System*, 3rd Edition, thoroughly covers the core content students need to master in today's rigorous sonography programs. Careful, collaborative editing ensures consistency across all three titles in this series: *The Vascular System*, *Abdomen and Superficial Structures*, and *Obstetrics and Gynecology*, providing the right content at the right level for both students and instructors.

Ultrasound is used to demonstrate and classify numerous vascular diseases and provides a firm basis for deciding the most appropriate interventional treatment. *Practical Vascular Ultrasound: An Illustrated Guide* delivers a hands-on, practical ap-

proach to the diagnosis of vascular disease. Providing an overview of performing vascular ultrasounds, the physiology of blood flow, and vascular pathology, the book explores the various vascular conditions most investigated through ultrasound. Conditions covered range from extracranial cerebrovascular arterial diseases to chronic venous disease in the lower limbs. For each disorder, the authors discuss: Anatomy Pathology Clinical presentations Differential diagnosis What doctors need to know for each condition Normal findings and criteria for disease as seen by ultrasound Comprehensive protocols for scanning Ultrasound images and observations that should be collected for best practice reporting The authors also discuss interventional vascular ultrasound procedures. Using easy-to-read, point-form text, this concise text is enhanced with high-resolution ultrasound images and clear line diagrams. It provides a consistent, comprehensive, and professional approach to vascular ultrasound.

Featuring contributions from internationally recognized experts in point-of-care sonography, *Emergency Point-of-Care Ultrasound, Second Edition* combines a

wealth of images with clear, succinct text to help beginners, as well as experienced sonographers, develop and refine their sonography skills. The book contains chapters devoted to scanning the chest, abdomen, head and neck, and extremities, as well as paediatric evaluations, ultrasound-guided vascular access, and more. An entire section is devoted to the syndromic approach for an array of symptoms and patient populations, including chest and abdominal pain, respiratory distress, HIV and TB coinfecting patients, and pregnant patients. Also included is expert guidance on administering ultrasound in a variety of challenging environments, such as communities and regions with underdeveloped healthcare systems, hostile environments, and cyberspace. Each chapter begins with an introduction to the focused scan under discussion and a detailed description of methods for obtaining useful images. This is followed by examples of normal and abnormal scans, along with discussions of potential pitfalls of the technique, valuable insights from experienced users, and summaries of the most up-to-date evidence. *Emergency Point-of-Care Ultrasound, Second Edition* is a valuable

working resource for emergency medicine residents and trainees, practitioners who are just bringing ultrasound scanning into their practices, and clinicians with many years of sonographic experience.

*Clinical Doppler Ultrasound* offers an accessible, comprehensive introduction and overview of the major applications of Doppler ultrasound and their role in patient management. The new edition of this medical reference book discusses everything you need to know to take full advantage of this powerful modality, from anatomy, scanning, and technique, to normal and abnormal findings and their interpretation. It presents just the right amount of Doppler ultrasonography information in a compact, readable format! Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Compatible with Kindle®, nook®, and other popular devices. Make the most informed Doppler imaging decisions possible by gaining a thorough understanding of the advantages and disadvantages of using Doppler ultrasound, as well as the basic principles behind its techniques and technologies. Acquire optimal images and avoid errors with the help of detailed proto-

cols and high-quality, full-color illustrations throughout. Understand and apply the latest Doppler imaging techniques with a new chapter on interventional and intraoperative applications of Doppler ultrasound and a new chapter on dialysis grafts, plus coverage of the most recent information on the role of contrast agents and how best to administer them. View real-time videos of Doppler imaging, and search across the complete text online at Expert Consult.

Review important sonography learnings with Curry and Prince's Workbook for Sonography: Introduction to Normal Structure and Function, 5th Edition. This well-constructed review tool supports and completes the main text by providing an excellent introduction to sonography while preparing users to accurately identify sonographic pathology and abnormalities. Each workbook chapter opens with review questions on material from the corresponding chapter in the main text. Review questions are followed by drawings from the text — with parallel sonograms where appropriate — that include leader lines to label structures, but not the labels themselves. Workbook users will fill in the labels to identify

structures in the drawings and sonograms, reinforcing visual and auditory learning from the text. Answers can be looked up in both the workbook appendix and by comparing the workbook figures to the labeled figures in the main text. Unlabeled line drawings and images from every chapter provide reinforcement of what you should be noticing on the scan. Direct correlation with each chapter from the main text enables immediate, thorough review of material. Review questions test your knowledge of the information learned in the text. NEW! Chapter on musculoskeletal sonography covers the latest use of ultrasound technology to visualize muscle, tendon, and ligament anatomy. NEW! Chapter devoted to pediatric sonography introduces you to the knowledge needed to work in this nascent specialty. NEW! Coverage of 5D technology familiarizes you with automated volume scanning. NEW! Updated content reflects the latest ARDMS standards and AIUM guidelines. NEW! Updated line drawings accompany new sonograms.

The Oxford Textbook of Vascular Surgery draws on the expertise of over 130 specialist contributors to encompass the field of

vascular surgery. Through the use of figures, findings of contemporary trials, and additional online content, this textbook is an excellent study material for surgical trainees entering their final two years of training, in addition to serving as an effective reference source for practicing surgeons. This volume discusses the epidemiology, vascular biology, clinical features and management of diseases that affect the vasculature and contains dedicated chapters which address topics such as paediatric surgery, damage control surgery, and amputations. The text follows a logical framework which complements the published Intercollegiate Surgery Curriculum making it particularly useful in preparation for the Intercollegiate Examination. The online version of The Oxford Textbook of Vascular Surgery is free for twelve months to individual purchasers of this book and contains the full text of the print edition, links to external sources and informative videos demonstrating current surgical techniques, making this a valuable resource for practicing surgeons. The field of vascular surgery has advanced rapidly in recent years and has expanded to include the techniques of interventional radiology

and cardiology which are also extensively covered in this volume, making it an authoritative modern text. By combining contemporary evidence-based knowledge with informative figures, online resources and links to the current training curriculum, The Oxford Textbook of Vascular Surgery is a highly valuable source of information and will become the standard reference text for all who study vascular disease and its treatment.

Ultrasound is used to demonstrate and classify numerous vascular diseases including a cerebrovascular and transcranial lower and upper limb arterial deep vein thrombosis a deep and superficial venous refluxa renal, hepatoportal, mesenteric and penile. Making Sense of Vascular Ultrasound is designed to give users a hands-on, practical approach t

The Fourth Edition of D. Eugene Strandness's Duplex Scanning in Vascular Disorders has been significantly revised by a new team of authors. This book explains the physiologic principles of duplex scanning and methodically explores each of the major clinical application areas: cerebrovascular, peripheral arterial, peripheral venous, visceral vascular, and specialized ap-

plications including assessment of aortic endografts, follow-up of carotid and peripheral artery stents, treatment of pseudoaneurysms, surveillance of infrainguinal bypass grafts, dialysis access procedures, and evaluation prior to coronary artery bypass grafts. Each chapter is authored by a team consisting of an MD and a sonography technologist. The book includes new Doppler scan images.

Now in its fourth edition, Vascular Ultrasound offers a compact yet comprehensive practical guide for anyone working in the field of vascular sonography. The book is written by expert practitioners as an easily accessible reference, providing key information suited to sonographers in their day-to-day practice. It covers essential vascular investigations undertaken by ultrasound departments and vascular laboratories in more detail than general ultrasound textbooks, but without overwhelming sonographers with highly complex information that may not be relevant to them. Here you will find essential information including the principle of ultrasound physics to enable accurate assessment of the peripheral circulation and blood flow, the use of the main scanner functions and con-

trols, the main disorders of the arterial and venous circulation system with appropriate treatment and management, and techniques for the diagnosis and grading of disease. Practical and focused, with clear explanations. Step-by-step guide to scanning and obtaining optimal images. Extensive diagrams and figures to demonstrate key information with practical examples. Appendices and quick reference tables. Small and compact - easy to carry to studies, teaching sessions and clinics.

Five sections span show the spectrum of arterial and venous ultrasound, from basic concepts and instrumentation, through cerebral vessels, extremity arteries, and extremity veins, to abdominal vessels, and the pelvis. This edition also features brand-new coverage of cerebrovascular arteries, peripheral arteries, intravascular techniques, and more.

Develop a solid understanding of vascular ultrasound with this practical, point-of-care reference in the popular Diagnostic Ultrasound series. Written by leading experts in the field, Diagnostic Ultrasound: Vascular offers detailed, clinically oriented coverage of ultrasound anatomy, pathology, tech-



nique, and diagnosis. This wealth of up-to-date information helps you achieve an accurate vascular ultrasound diagnosis for every patient. Ensures that you stay on top of rapidly evolving vascular ultrasound practice and its expanding applications for everyday clinical use Includes extensively illustrated coverage of sonographic anatomy that depicts pertinent vascular structures of the head and neck, chest and abdomen, and extremities Features image-rich chapters on vascular ultrasound techniques, covering grayscale, color, power, and spectral (pulsed) Doppler imaging, as well as imaging artifacts Provides detailed sonographic descriptions for the vascular diseases and anomalies encountered in clinical practice, including lesions of head and neck, chest and abdomen (including transplants), and extremities, including tips, tricks, and pitfalls Contains a gallery of typical and atypical ultrasound appearances covering a wide spectrum of disease, correlated with CT and MR imaging where appropriate, and detailed artistic renderings Discusses key vascular ultrasound intervention techniques for both diagnosis and treatment Uses a bulleted, templated format that helps you quickly

find and understand complex information, as well as thousands of high-quality images and illustrations An ideal reference for radiologists, sonographers, vascular surgeons, and those who are training in these fields Expert Consult eBook version included with purchase, which allows you to search all of the text, figures, and references from the book on a variety of devices.

Throughout the world, sonography is often the first and sometimes the only imaging modality to be used after clinical examination. This is particularly true for the cervical region. This book reviews the sonographic features of the cervical structures, including the thyroid, parathyroids, salivary glands, lymph nodes, larynx and hypopharynx, and blood vessels. Detailed morphological descriptions of numerous pathological processes are provided, followed by thorough discussion of differential diagnostic problems. The role of all of the new technical modalities, including high-definition gray scale, enhanced color Doppler, and ultrasound contrast agents, is fully considered. The closing chapter is devoted to the use of cervical sonography in pediatrics.

Explains aspects of physics as applied to ultrasound and provides the background knowledge needed to perform quality scans. This text has new chapters on colour flow imaging, haemodynamics, vascular ultrasound and pulsed wave spectral analysis, with sample problems and review questions throughout.

Focused content, an easy-to-read writing style, and abundant illustrations make Introduction to Vascular Ultrasonography the definitive reference on arterial and venous ultrasound. Trusted by radiologists, interventional radiologists, vascular and interventional fellows, residents, and sonographers through six outstanding editions, the revised 7th Edition covers all aspects of ultrasound vascular diagnosis, including peripheral veins and arteries, carotid and vertebral arteries, abdominal vessels, and transcranial Doppler. Step-by-step explanations, all highly illustrated, walk you through the full spectrum of ultrasound sonography practice, including all that's new in this quickly evolving field. Organizes sections with quick reference in mind: clinical rationale, anatomy, examination technique, findings, and interpreta-

tion. Includes 2,100 clinical ultrasound images and anatomic line drawings, including over 1,000 in full color. Features new coverage of noninvasive image-guided procedures, robotic embolization, laser therapy, new Doppler ultrasound and color images, and guidance on promoting patient relationships. Takes a clear, readable, and practical approach to interventions and underlying rationales for a variety of complex IR principles, such as the physics of Doppler ultrasound and hemodynamics of blood flow. Contains extensive tables, charts, and graphs that clearly explain examination protocols, normal values, diagnostic parameters, and ultrasound findings.

Part of the highly regarded Diagnostic Medical Sonography series, Diane M. Kawamura and Tanya D. Nolan's *Abdomen and Superficial Structures*, 5th Edition, thoroughly covers the core content students need to master in today's rigorous sonography programs. Careful, collaborative editing ensures consistency across all three titles in this series: *The Vascular System*, *Abdomen and Superficial Structures*, and *Obstetrics and Gynecology*, providing the right content at the right level for both stu-

dents and instructors.

This book looks at specific vascular surgery questions that have arisen and where careful analysis is given according to the level of supporting evidence available. As new technology is introduced to treat the cardiovascular system, alternative therapies begin to challenge and also complement traditional vascular surgery. All chapters contain the PICO table to summarise specific characteristics relative to the questions posed in each chapter. *Difficult Decisions in Vascular Surgery- An Evidence-Based Approach* is a current and timely reference source for practicing surgeons, surgeons in training, and educators, that describes the recommended ideal approach, rather than customary care, in selected clinical situations.

*Venous Ultrasound 2e* is the essential text for anyone involved in the treatment of chronic venous disease. It provides specific information on ultrasound as it is applied to chronic insufficiency, including history, general techniques, examples of anatomy, and protocols for performing ultrasound on patients, and discussions on key aspects of interpretation of sonographic findings. Updated to include the outcome

and impact of three recent studies, the ATTRACT trial, the EVRA study, and the VIDIO imaging trial. An entire chapter is dedicated to iliac venous and stent imaging for those interested in expanding practice based on the mentioned studies. Also included is specific protocol for imaging of the pelvic area with focus on the pelvic congestion and reflux affecting this anatomic area. This text demonstrates that as imaging techniques improve, so too will the understanding of venous pathologies increase and the burdens of their respective pathologies. Pelvic Congestion, iliofemoral and late stage disease can be interrogated with a non-invasive approach using the techniques included prior to interventional procedures. This fully updated new edition includes coverage of new ablation techniques which include non-thermal and non-tumescent therapies for venous insufficiency - these have unique ultrasound properties on what to see, look for and observe in intra and post-operative situations. Focusing on the fundamentals that every phlebologist needs to know, the color illustrations and numerous line drawings complement the text for a complete learning experience. Key fea-

tures: Covers anatomy related to venous insufficiency and obstruction. Protocols with step by step approaches for those new to certain exams. Includes useful diagrams and images to aid understanding. Thoroughly up to date, with all the latest information for those practicing venous therapies. Venous Ultrasound 2e is valuable for sonographers and physicians alike; including phlebologists, general and vascular surgeons, physicians, radiologists, angiologists, interventional cardiologist, mid-levels, and nurses who work in this area.

Updated to reflect the newest curriculum standards, Textbook of Diagnostic Sonography, 8th Edition provides you with the pertinent information needed for passing the boards. This highly respected text enhances your understanding of general/abdominal and obstetric/gynecologic sonography, the two primary divisions of sonography, as well as vascular sonography and echocardiography. Each chapter covers patient history; normal anatomy, including cross-sectional anatomy; sonography techniques; pathology; and related laboratory findings. And more than 3,100 images and

anatomy drawings guide you in recognizing normal anatomy and abnormal pathology. Full-color presentation, including color scans of gross pathology photos, where appropriate, enhances your learning experience and the teaching value of the text. Pathology tables give you quick access to clinical findings, laboratory findings, sonography findings, and differential considerations. Pedagogy, including chapter objectives and outlines, alerts you to the important information you will learn in each chapter. Evolve site includes PowerPoint slides, an image bank, review questions and a workbook answer key for students, and a test bank for faculty to aid in the reinforcement and teaching of sonography skills. Sonography Findings, highlighted with icon and special type, call attention to key clinical information. NEW! Full coverage of general/abdominal, transplantation, superficial structures, pediatrics, fetal heart, and obstetric/gynecologic sonography, along with several new chapters on vascular sonography, hemodynamics, and introduction to echocardiography, provides you with the information needed to pass the boards and succeed in clinicals. UPDATED! Content reflects the newest curricu-

lum standards so you have the information you need to pass the boards. NEW! Updated images depict the latest advances in the field of sonography and help you prepare for the boards and clinicals. NEW! Key words in chapter openers focus your attention on the terms that you are required to know and understand. NEW! Bulleted summary lists at the end of each chapter reinforce important concepts. NEW! A condensed bibliography at the end of the book lists essential references and guides you in the direction to obtain more information in a given area.

Provides a guide to techniques and their major applications and role in patient management. The major applications of Doppler ultrasound, including examination techniques and the interpretation of results, are discussed in an accessible, reader-friendly manner. Color and halftone illustrations. Chapters are color-coded.

Der Band fasst die modernen Verfahren und neuesten Erkenntnisse auf dem Gebiet der Gefäßdiagnostik zusammen. Der Textteil beschreibt die Gefäßregion mit Sonoanatomie, Untersuchungsablauf und Normalbefund sowie die Indikation der Ultraschalluntersuchung und die klinische

Relevanz der Untersuchungsergebnisse. Der Atlasteil veranschaulicht anhand aussagekräftiger Ultraschallbilder die verschiedenen Krankheitsbilder. Die 3. Auflage behandelt verstärkt die Bedeutung der Ultraschall-Routinediagnostik für seltene Gefäßerkrankungen.