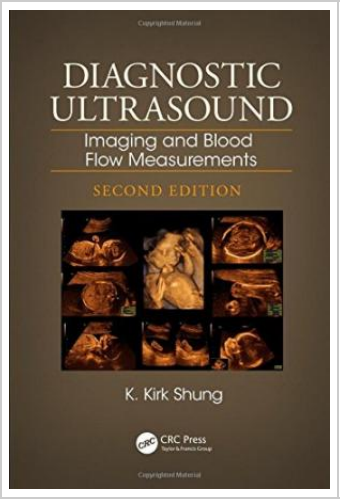




# Diagnostic Ultrasound: Imaging and Blood Flow Measurements, Second Edition (Hardback)

By K. Kirk Shung

Taylor & Francis Inc, United States, 2015. Hardback. Condition: New. 2nd New edition. Language: English. Brand new Book. Offers an Extensive Discussion on High Frequency UltrasoundBased on a course taught and developed by a foremost expert in diagnostic ultrasound technology, Diagnostic Ultrasound: Imaging and Blood Flow Measurements, Second Edition covers cutting-edge developments, along with the fundamental physics, instrumentation, system architecture, clinical applications, and biological effects of ultrasound. This text addresses the technical side of diagnostic ultrasound and begins with an overview of the field of ultrasonic imaging and its role in diagnostic medicine relative to other imaging modalities. The author describes the fundamental physics involved in ultrasonic transducers, as well as in conventional imaging approaches and Doppler measurements, including contrast imaging and 4D imaging. He reviews the current status and standards on ultrasound bioeffect and discusses methods that have been used to measure ultrasonic properties of tissues. He also provides a list of relevant references and further reading materials at the end of each chapter.New in the Second Edition:Details the latest advances in ultrasound technology related to biomedical applications, including elastrography, portable scanners, ultrasound molecular imaging, preclinical high frequency imaging, 2D array, and 4D imaging techniquesUpdates and expands each chapterAdds...



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