



Diagnostic Ultrasound: Imaging and Blood Flow Measurements, Second Edition

K. Kirk Shung

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Offers an Extensive Discussion on High Frequency Ultrasound

Based 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 elastography, portable scanners, ultrasound molecular imaging, preclinical high frequency imaging, 2D array, and 4D imaging techniques
- Updates and expands each chapter
- Adds a new chapter on new developments such as elastography and miniature scanners
- Includes new case studies and examples throughout the book

Diagnostic Ultrasound: Imaging and Blood Flow Measurements, Second Edition covers recent advances in ultrasound technology related to biomedical applications. Intended for senior- to graduate-level coursework in ultrasonic imaging, this text also serves practicing physicists, engineers, clinicians, and sonographers.

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