



Informatics in Medical Imaging (Imaging in Medical Diagnosis and Therapy)

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Informatics in Medical Imaging provides a comprehensive survey of the field of medical imaging informatics. In addition to radiology, it also addresses other specialties such as pathology, cardiology, dermatology, and surgery, which have adopted the use of digital images. The book discusses basic imaging informatics protocols, picture archiving and communication systems, and the electronic medical record. It details key instrumentation and data mining technologies used in medical imaging informatics as well as practical operational issues, such as procurement, maintenance, teleradiology, and ethics.

Highlights

- Introduces the basic ideas of imaging informatics, the terms used, and how data are represented and transmitted
- Emphasizes the fundamental communication paradigms: HL7, DICOM, and IHE
- Describes information systems that are typically used within imaging departments: orders and result systems, acquisition systems, reporting systems, archives, and information-display systems
- Outlines the principal components of modern computing, networks, and storage systems
- Covers the technology and principles of display and acquisition detectors, and rounds out with a discussion of other key computer technologies
- Discusses procurement and maintenance issues; ethics and its relationship to government initiatives like HIPAA; and constructs beyond radiology

The technologies of medical imaging and radiation therapy are so complex and computer-driven that it is difficult for physicians and technologists responsible for their clinical use to know exactly what is happening at the point of care. Medical physicists are best equipped to understand the technologies and their applications, and these individuals are assuming greater responsibilities in the clinical arena to ensure that intended care is delivered in a safe and effective manner. Built on a foundation of classic and cutting-edge research, **Informatics in Medical Imaging** supports and updates medical physicists functioning at the intersection of radiology and radiation.

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