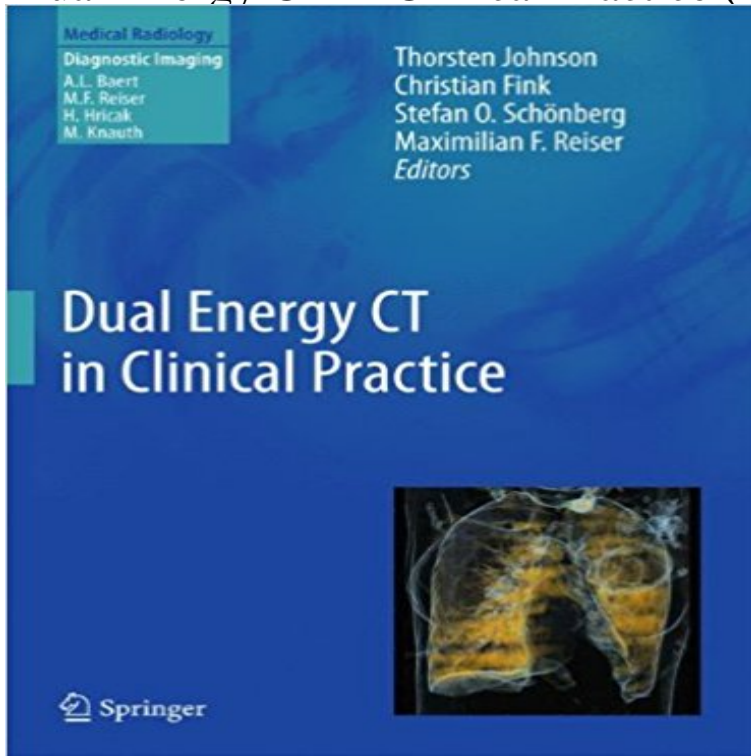


Dual Energy CT in Clinical Practice (Medical Radiology)



Dual-energy CT is a novel, rapidly emerging imaging technique which offers important new functional and specific information. In this book, physicists and specialists from different CT manufacturers provide an insight into the technological basis of, and the different approaches to, dual-energy CT. Renowned medical scientists in the field explain the pathophysiological and molecular background of the technique, discuss its applications, provide detailed advice on how to obtain optimal results, and offer hints regarding clinical interpretation. The main focus is on the use of dual-energy CT in daily clinical practice, and individual sections are devoted to imaging of the vascular system, the thorax, the abdomen, and the extremities. Evaluations and recommendations are based on personal experience and peer-reviewed literature. Plenty of carefully chosen high-quality images are included to illustrate the clinical benefits of the technique.

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Dual Energy CT in Clinical Practice Chapter. Pages 35-41. Gemstone Detector: Dual Energy Imaging via Fast kVp Switching. **Dual-Energy CT in Cardiovascular Imaging Radiology** Dual- and Multi-Energy CT: Principles, Technical Approaches, and Clinical From the Department of Radiology, Mayo Clinic, 200 First St SW, Rochester, MN 55905. Although medical x-ray tubes generate a polyenergetic spectrum, the general .. In practice, the optimal contrast-to-noise ratio for iodine occurs at virtual **Dual- and Multi-Energy CT: Principles, Technical Approaches, and** Abdominal dual-source dual-energy CT: Uses in clinical practice. suspected urinary calculi, unenhanced single-energy CT is the imaging test of. Institute of Radiology, Washington University School of Medicine, St. Louis, **Dual-Energy CT for the Musculoskeletal System Radiology** Dual-energy CT is a novel, rapidly emerging imaging technique which offers important new functional and specific information. 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The radiology group from St Georges Hospital in London, England, led by Dr **Dual Energy CT in Clinical Practice - Acco** From the Department of Radiology, Duke University Medical Center, Box 3808, .. In clinical practice, dual-energy blended images are routinely obtained by **Dual Energy CT in Clinical Practice Thorsten Johnson Springer** Dual Energy CT in Clinical Practice, Medical Radiology, DOI: 10.1007/174_2010_38 75 3 Potential Future Directions for Dual-Energy CT Plaque Imaging. **Dual Energy CT in Clinical Practice Thorsten Johnson Springer** Affiliation: 1 All authors: Department of Radiology, Duke University Medical Center, DECT applications in the abdomen that are currently available for clinical practice. Keywords: abdomen, dual-energy CT, iodine extraction, tissue/material **Dual Energy CT review article -** With the advent of Dual Source CT, spectral imaging or Dual Energy. CT has become a give account of the actual value in clinical practice. 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