



Dual Energy CT in Clinical Practice (Medical Radiology)

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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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Editorial Review

Review

From the reviews:

“This is a review of dual energy CT in clinical practice The editors intend the book for technicians and radiologists. It is well organized and well suited for clinical physicists and research scientists suitable for medical physics graduate students entering the field. ... a welcome addition to the books on CT physics and CT imaging. ... The book should be required reading for clinical physicists and radiologists There is no direct competition for this book” (Terry T. Yoshizumi, Doody’s Review Service, June, 2011)

“This really is worth reading, particularly as there are several different ways of obtaining dual energy information, each one championed by a different manufacturer. ... the book is devoted to clinical applications, with examples mainly using the dual source technique. ... I learnt a lot from this book and was excited by the possibilities of DECT. For anyone with anorak tendencies or an interest in the future of CT, I would recommend they seek out a copy” (Nicholas Reading, RAD Magazine, August, 2011)

“A comprehensive textbook that provides general background of the physical principles of the technology as well as practical advice about clinical applications of dual-energy CT. ... Overall, this well-written and organized book succeeds in summarizing the basic scientific, clinical, and technical aspects of dual-energy CT. It provides the reader with a sufficient and comprehensive physical and technical background. ... a good addition to the bookshelves of an institution that uses dual-energy CT and readers interested in dual-energy CT in general.” (J. Matthias Kerl, Radiology, Vol. 261 (2), November, 2011)

“This book is entirely devoted to the impact on clinical practice induced by dual energy computed tomography (DECT), describing in full detail the advances in this domain offered by the introduction of the newest machines, more robust hardware and post-processing dedicated software. ... This is an important book which will be of great interest to all those approaching, using and mastering DECT, who will make good use of the extensive practical expertise in the text from all contributing authors.” (Giampiero Beluffi, La Radiologia Medica, Vol. 117, 2012)

From the Back Cover

Dual-energy CT is a novel, rapidly emerging imaging technique which offers important new functional and specific information. With implementation of the technology in commercially available scanners, many clinical applications are now feasible.

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Users Review

From reader reviews:

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