



Medical Imaging Technology (Paperback)

By Mark A. Haidekker

Springer-Verlag New York Inc., United States, 2013. Paperback. Book Condition: New. 2013 ed.. 231 x 173 mm. Language: English . Brand New Book. Biomedical imaging is a relatively young discipline that started with Conrad Wilhelm Roentgen's discovery of the x-ray in 1895. X-ray imaging was rapidly adopted in hospitals around the world. However, it was the advent of computerized data and image processing that made revolutionary new imaging modalities possible. Today, cross-sections and three-dimensional reconstructions of the organs inside the human body is possible with unprecedented speed, detail and quality. This book provides an introduction into the principles of image formation of key medical imaging modalities: X-ray projection imaging, x-ray computed tomography, magnetic resonance imaging, ultrasound imaging, and radionuclide imaging. Recent developments in optical imaging are also covered. For each imaging modality, the introduction into the physical principles and sources of contrast is provided, followed by the methods of image formation, engineering aspects of the imaging devices, and a discussion of strengths and limitations of the modality. With this book, the reader gains a broad foundation of understanding and knowledge how today's medical imaging devices operate. In addition, the chapters in this book can serve as an entry...



READ ONLINE
[1.17 MB]

Reviews

It is just one of the best ebook. I could possibly comprehend everything using this written e ebook. You won't feel monotony at whenever you want of your time (that's what catalogs are for regarding should you check with me).

-- **Dayana Brekke Sr.**

Merely no words to spell out. I am quite late in start reading this one, but better than never. I am happy to explain how this is actually the very best publication we have go through within my personal daily life and can be the best ebook for at any time.

-- **Althea Christiansen**

Related eBooks



Kindergarten Culture in the Family and Kindergarten; A Complete Sketch of Froebel s System of Early Education, Adapted to American Institutions. for the Use of Mothers and Teachers (Paperback)

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original...



Suite in E Major, Op. 63: Study Score (Paperback)

Petrucchi Library Press, United States, 2013. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****.Composed originally in four movements during 1907-08, Foote dropped the Theme and Variations while revising the work prior...



In Nature s Realm, Op.91 / B.168: Study Score (Paperback)

Petrucchi Library Press, United States, 2015. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****.Composed in 1891, V P irod (In Nature s Realm) is the first of Dvorak s three concert...



Slavonic Rhapsody in G Minor, B.86.2: Study Score (Paperback)

Petrucchi Library Press, United States, 2015. Paperback. Book Condition: New. 297 x 210 mm. Language: English . Brand New Book ***** Print on Demand *****.Dvorak s second of his three Slovanske rapsodie was composed from August 20 to September 17 of 1878...



Slavonic Rhapsody in D Major, B.86.1: Study Score (Paperback)

Petrucchi Library Press, United States, 2015. Paperback. Book Condition: New. 297 x 210 mm. Language: English . Brand New Book ***** Print on Demand *****.The first of the three Slovanske rapsodie was composed from February 13 to March 17 of 1878 and...



Slavonic Rhapsody in A-Flat Major, B.86.3: Study Score (Paperback)

Petrucchi Library Press, United States, 2015. Paperback. Book Condition: New. 297 x 210 mm. Language: English . Brand New Book ***** Print on Demand *****.Dvorak s final Slovanske rapsodie was composed from around September 20 to December 3 of 1878 and was...