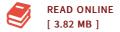


The Mathematics of Medical Imaging: A Beginner's Guide (2nd ed. 2015)

By Timothy G. Feeman

Springer International Publishing AG. Hardback. Book Condition: new. BRAND NEW, The Mathematics of Medical Imaging: A Beginner's Guide (2nd ed. 2015), Timothy G. Feeman, The basic mathematics of computerized tomography, the CT scan, are aptly presented for an audience of undergraduates in mathematics and engineering. Assuming no prior background in advanced mathematical analysis, topics such as the Fourier transform, sampling, and discrete approximation algorithms are introduced from scratch and are developed within the context of medical imaging. A chapter on magnetic resonance imaging focuses on manipulation of the Bloch equation, the system of differential equations that is the foundation of this important technology. Extending the ideas of the acclaimed first edition, new material has been adeed to render an even more accessible textbook for course usage. This edition includes new discussions of the Radon transform, the Dirac delta function and its role in X-ray imaging, Kacmarz's method and least squares approximation, spectral filtering, and more. Copious examples and exercises, new computer-based exercises, and additional graphics have been added to further delineate concepts. The use of technology has been revamped throughout with the incorporation of the open source programming environment R to illustrate examples and composition of graphics. All R code...



Reviews

If you need to adding benefit, a must buy book. I am quite late in start reading this one, but better then never. I am happy to inform you that this is the best book i have read through during my own lifestyle and can be he best publication for at any time. -- **Mrs. Phoebe Schimmel**

This book might be really worth a read, and superior to other. This really is for all who statte there had not been a really worth studying. I am just happy to tell you that this is basically the very best pdf i actually have read through during my very own lifestyle and may be he best ebook for actually. -- Elnora Ruecker

Related eBooks

1	٢		ľ		
		_			
	_			_	,

The Picture of Dorian Gray: A Moral Entertainment (New edition)

Oberon Books Ltd. Paperback. Book Condition: new. BRAND NEW, The Picture of Dorian Gray: A Moral Entertainment (New edition), Oscar Wilde, John Osborne, The Picture of Dorian Gray is a stage adaptation of Oscar Wilde's classic and controversial novel, described by Osborne...

1		
	_	1
	-	

The Victim's Fortune: Inside the Epic Battle Over the Debts of the Holocaust

HarperCollins. Hardcover. Book Condition: New. 0066212642 Never Read-12+ year old Hardcover book with dust jacket-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good Copy- I ship FAST with FREE tracking!! * I...

Pete's Peculiar Pet Shop: The Very Smelly Dragon (Gold A)

Pearson Education Limited. Paperback. Book Condition: new. BRAND NEW, Pete's Peculiar Pet Shop: The Very Smelly Dragon (Gold A), Sheila May Bird, This title is part of Bug Club, the first whole-school reading programme that joins books with an online reading world...

James Dixon's Children: The Story of Blackburn Orphanage

Fleetfoot Books, a division of Gazelle Book Services Ltd. Paperback. Book Condition: new. BRAND NEW, James Dixon's Children: The Story of Blackburn Orphanage, Melanie Warren, James Dixon, born in 1855, was the founder of Blackburn Orphanage. A contemporary of Dr Barnardo, during his...

Reflecting the Eternal: Dante's Divine Comedy in the Novels of C S Lewis

Hendrickson Publishers Inc. Paperback. Book Condition: new. BRAND NEW, Reflecting the Eternal: Dante's Divine Comedy in the Novels of C S Lewis, Marsha Daigle-Williamson, The characters, plots, and potent language of C. S. Lewis's novels reveal everywhere the modern writer's admiration for...

٢	
L	
l	

The Red Leather Diary: Reclaiming a Life Through the Pages of a Lost Journal (P.S.)

Harper Perennial. PAPERBACK. Book Condition: New. 0061256781 Never Read-12+ year old Paperback book with dust jacket-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good Copy- I ship FAST with FREE tracking!! *...