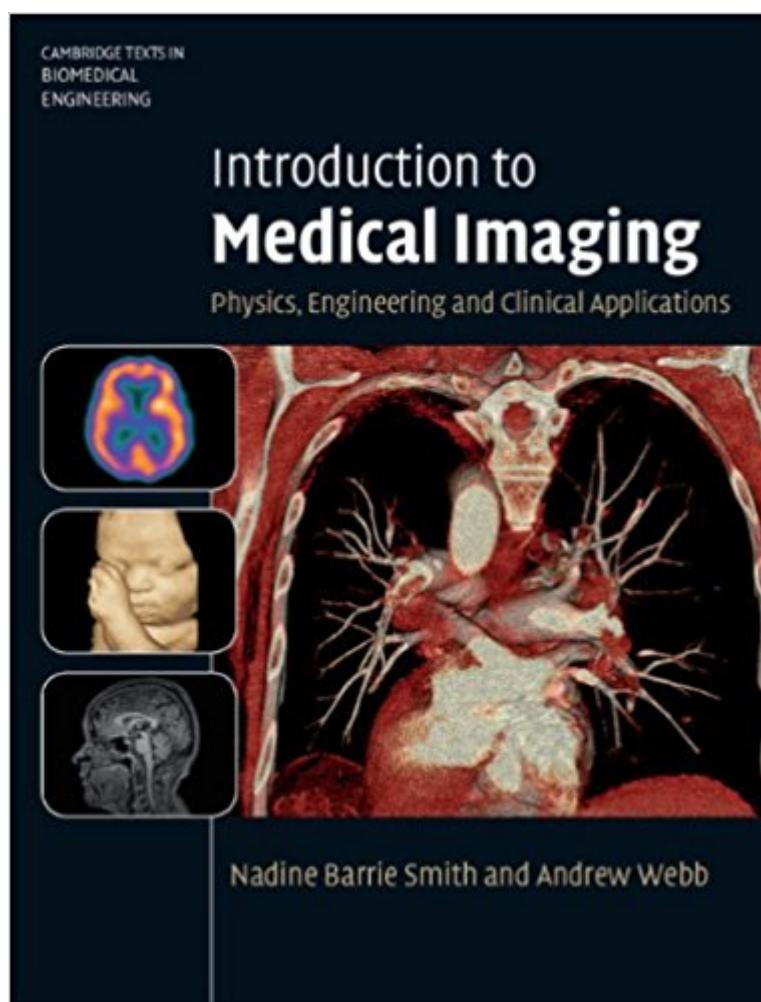The book was found

Introduction To Medical Imaging: Physics, Engineering And Clinical Applications (Cambridge Texts In Biomedical Engineering)

CAMBRIDGE TEXTS IN BIOMEDICAL ENGINEERING

Introduction to **Medical Imaging**

Physics, Engineering and Clinical Applications

Nadine Barrie Smith and Andrew Webb

Synopsis

Covering the basics of X-rays, CT, PET, nuclear medicine, ultrasound, and MRI, this textbook provides senior undergraduate and beginning graduate students with a broad introduction to medical imaging. Over 130 end-of-chapter exercises are included, in addition to solved example problems, which enable students to master the theory as well as providing them with the tools needed to solve more difficult problems. The basic theory, instrumentation and state-of-the-art techniques and applications are covered, bringing students immediately up-to-date with recent developments, such as combined computed tomography/positron emission tomography, multi-slice CT, four-dimensional ultrasound, and parallel imaging MR technology. Clinical examples provide practical applications of physics and engineering knowledge to medicine. Finally, helpful references to specialised texts, recent review articles, and relevant scientific journals are provided at the end of each chapter, making this an ideal textbook for a one-semester course in medical imaging.

Book Information

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Customer Reviews

"This is an excellently prepared textbook for a senior/first year graduate level course. It explains physical concepts in an easily understandable manner. In addition, a problem set is included after each chapter. Very few books on the market today have this choice. I would definitely use it for teaching a medical imaging class at USC." - K. Kirk Shung, University of Southern California"I have anxiously anticipated the release of this book and will use it with both students and trainees." -

Michael B. Smith, Novartis Institutes for Biomedical Research"An excellent and approachable text for both undergraduate and graduate students." - Richard Magin, University of Illinois at Chicago

Covering the basics of X-rays, CT, PET, nuclear medicine, ultrasound, and MRI, this textbook is for a one-semester senior undergraduate/graduate course in medical imaging. Together with the state-of-the-art concepts and theory, it also provides relevant clinical applications, solved and open-ended example problems, and future prospects for the field.

I bought this book for a senior level Electrical Engineering course in Biomedical Imaging at Michigan State University. The book does a very good job of covering the fundamentals of X-Ray, CT, MRI, Ultrasound and Nuclear Medicine. I actually read the entire book and have found it to be a valuable reference in learning the material. This books will be most helpful to those that have a solid background in math covered in an undergraduate engineering program, especially Fourier Transforms which are essential in these imaging techniques.

Required for a classEasy read, but very few examples therefore kind of difficult to try to do the book problems.Second version better because it has more examples.

excellent book thank you very much!!! they have also send it with a nice cover for protection.

Thank you very much.

Kill me

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