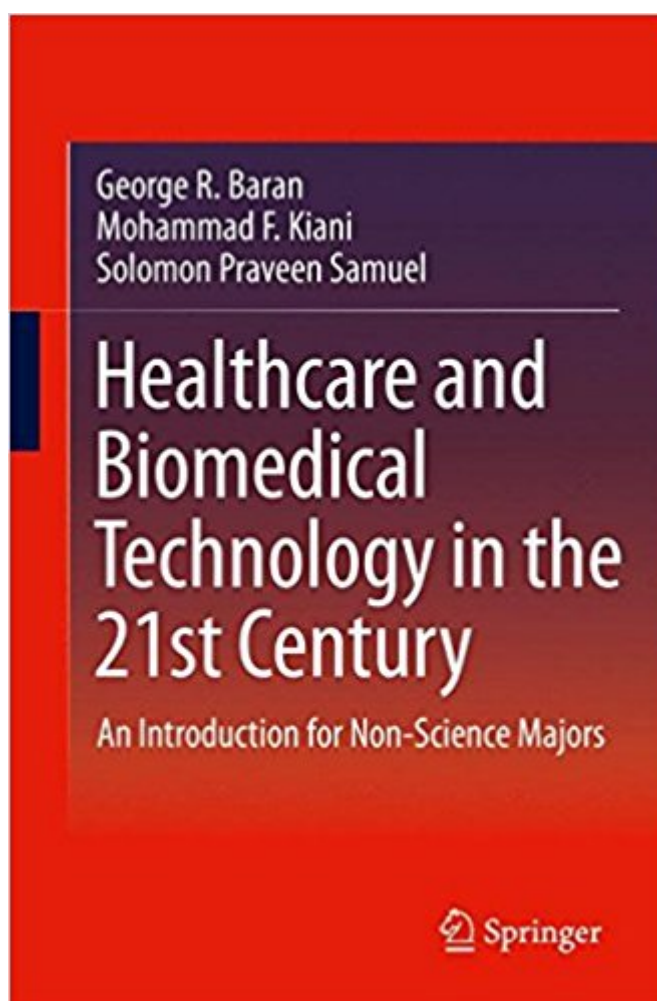


The book was found

Healthcare And Biomedical Technology In The 21st Century: An Introduction For Non-Science Majors



Synopsis

Healthcare and Biotechnology in the 21st Century: Concepts and Case Studies introduces students not pursuing degrees in science or engineering to the remarkable new applications of technology now available to physicians and their patients and discusses how these technologies are evolving to permit new treatments and procedures. The book also elucidates the societal and ethical impacts of advances in medical technology, such as extending life and end of life decisions, the role of genetic testing, confidentiality, costs of health care delivery, scrutiny of scientific claims, and provides background on the engineering approach in healthcare and the scientific method as a guiding principle. This concise, highly relevant text enables faculty to offer a substantive course for students from non-scientific backgrounds that will empower them to make more informed decisions about their healthcare by significantly enhancing their understanding of these technological advancements.

Book Information

Paperback: 503 pages

Publisher: Springer; 2014 edition (October 6, 2013)

Language: English

ISBN-10: 1461485401

ISBN-13: 978-1461485407

Product Dimensions: 6 x 1.2 x 9 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #386,266 in Books (See Top 100 in Books) #19 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Testing #91 in Books > Textbooks > Medicine & Health Sciences > Medicine > Diagnostics & Labs > Laboratory Medicine #101 in Books > Textbooks > Medicine & Health Sciences > Medicine > Basic Sciences > Biochemistry

Customer Reviews

“Book about modern developments in health care and biomedical technology, and numerous healthcare dilemmas relevant for the public today. It introduces the reader to a huge range of treatment options available to him or her, explains how they work, and discusses the ethical and political implications of these technologies. Healthcare and Biomedical Technology in the 21st Century is a highly informative book that, if used wisely in undergraduate

education, can most certainly help promote students' scientific and health literacy. (Rebecca B. Carver, Science and Education, Vol. 25, 2016)

This textbook introduces students not pursuing degrees in science or engineering to the remarkable new applications of technology now available to physicians and their patients and discusses how these technologies are evolving to permit new treatments and procedures. The book also elucidates the societal and ethical impacts of advances in medical technology, such as extending life and end of life decisions, the role of genetic testing, confidentiality, costs of health care delivery, scrutiny of scientific claims, and provides background on the engineering approach in healthcare and the scientific method as a guiding principle. This concise, highly relevant text enables faculty to offer a substantive course for students from non-scientific backgrounds that will empower them to make more informed decisions about their healthcare by significantly enhancing their understanding of these technological advancements. This book also:

- Presents scientific concepts from modern medical science using relevant, high-profile, and widely publicized break-through technologies
- Presents a case-history approach involving hypothetical medical scenarios to illustrate several treatments, progressing from less- to more-technologically involved
- Offers coverage of the scientific method and details of the engineering approach in medicine
- Discusses common and esoteric medical interventions, drawing on students' and their families' life experiences to foster an understanding and appreciation of the engineering and technologic contributions to healthcare
- Covers diagnostic medical imaging, synthetic and bio-materials, implant design, cardiac care devices, genetic testing, controlled and targeted drug delivery, the impact of nanotechnology, and the future of medical care as it is shaped by new technologies
- Includes many exercises, an instructor's solutions manual, and 75 illustrations

[Download to continue reading...](#)

Healthcare and Biomedical Technology in the 21st Century: An Introduction for Non-Science Majors
Book of Majors 2016 (College Board Book of Majors) Biomedical Ethics for Engineers: Ethics and Decision Making in Biomedical and Biosystem Engineering (Biomedical Engineering Series)
Biomedical Engineering Principles Of The Bionic Man (Series on Bioengineering & Biomedical Engineering) (Bioengineering & Biomedical Engineering (Paperback)) Introduction to Cybercrime: Computer Crimes, Laws, and Policing in the 21st Century: Computer Crimes, Laws, and Policing in

the 21st Century (Praeger Security International) Garage Band Theory & GBTool 17 Triad Inversions for Guitar, Mandolin and Banjo: Music theory for non music majors, livingroom pickers * working musicians ... Tools the Pro's Use to Play by Ear Book 18) Biomedical Engineering: Bridging Medicine and Technology (Cambridge Texts in Biomedical Engineering) An Introduction to Modeling of Transport Processes: Applications to Biomedical Systems (Cambridge Texts in Biomedical Engineering) Belwin's 21st Century Guitar Method, Bk 1: The Most Complete Guitar Course Available, Book & Online Audio (Belwin's 21st Century Guitar Course) Belwin's 21st Century Guitar Ensemble 1: The Most Complete Guitar Course Available (Student Book) (Belwin's 21st Century Guitar Course) Belwin's 21st Century Guitar Method 1: Spanish Language Edition (Book & CD) (Belwin's 21st Century Guitar Course) (Spanish Edition) Belwin 21st Century Band Method, Level 2 flute (Belwin 21st Century Band Method) The Confessions: (Vol. I/1) Revised, (The Works of Saint Augustine: A Translation for the 21st Century) (The Works of Saint Augustine: A Translation for the 21st Century, Vol. 1) Roget's 21st Century Thesaurus, Third Edition (21st Century Reference) Creating America: 1877 to the 21st Century: Student Edition © 2005 1877 to the 21st Century 2005 EMS Workforce for the 21st Century: A National Assessment (Public Health in the 21st Century) Healthcare Information Technology Exam Guide for CompTIA Healthcare IT Technician and HIT Pro Certifications (Certification & Career - OMG) Taber's Cyclopedic Medical Dictionary (Non-thumb-indexed Version) (Taber's Cyclopedic Medical Dictionary (Non-Indexed Version)) 21st Edition Introduction to the Financial Management of Healthcare Organizations, Sixth Edition (Gateway to Healthcare Management) Principles of Biomedical Ethics (Principles of Biomedical Ethics (Beauchamp))

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)