Principles of Biomedical Informatics (Hardback)

By Ira J. Kalet Ph.D.

Elsevier Science Publishing Co Inc, United States, 2013. Hardback. Condition: New. 2nd edition. Language: English. Brand new Book. This second edition of a pioneering technical work in biomedical informatics provides a very readable treatment of the deep computational ideas at the foundation of the field. Principles of Biomedical Informatics, 2nd Edition is radically reorganized to make it especially useable as a textbook for courses that move beyond the standard introductory material. It includes exercises at the end of each chapter, ideas for student projects, and a number of new topics, such as: * tree structured data, interval trees, and time-oriented medical data and their use * On Line Application Processing (OLAP), an old database idea that is only recently coming of age and finding surprising importance in biomedical informatics * a discussion of nursing knowledge and an example of encoding nursing advice in a rule-based system * X-ray physics and algorithms for cross-sectional medical image reconstruction, recognizing that this area was one of the most central to the origin of biomedical computing * an introduction to Markov processes, and * an outline of the elements of a hospital IT security program, focusing on fundamental ideas rather than specifics of system...

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