



Biomedical Informatics: An Introduction to Information Systems and Software in Medicine and Health (Hardback)

By David J. Lubliner

Taylor Francis Inc, United States, 2015. Hardback. Condition: New. Language: English . Brand New Book. Medical informatics lies at the intersection of computer science and medicine, and understanding critical aspects of both fields provides for more proficient practitioners. Biomedical Informatics: An Introduction to Information Systems and Software in Medicine and Health supplies a cohesive narrative of the multidisciplinary concepts linking the field. This complete medical informatics textbook begins by reviewing the IT aspects of informatics, including systems architecture, electronic health records, interoperability, privacy and security, cloud computing, mobile healthcare, imaging, data capture, and design issues. Next, the text provides case studies that demonstrate the roll out of electronic health records (EHRs) in hospitals. The third section incorporates four anatomy and physiology lectures that focus on the physiological basis behind data captured in EHRs. Examples include detailed descriptions of the heart and electrical systems, lungs and alveoli, and oxygen exchange. The book includes a primer on the theoretical concepts that underpin the science behind medical informatics, including an Anatomy Physiology Essentials guide. It also contains a tutorial on application development to help students understand the tools for improving user interfaces for EHRs on mobile platforms. The author uses a student-friendly organizational...



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