Health Care Engineering Part I:: Clinical Engineering and Technology Management (Synthesis Lectures on Biomedical Engineering)

Monique Frize
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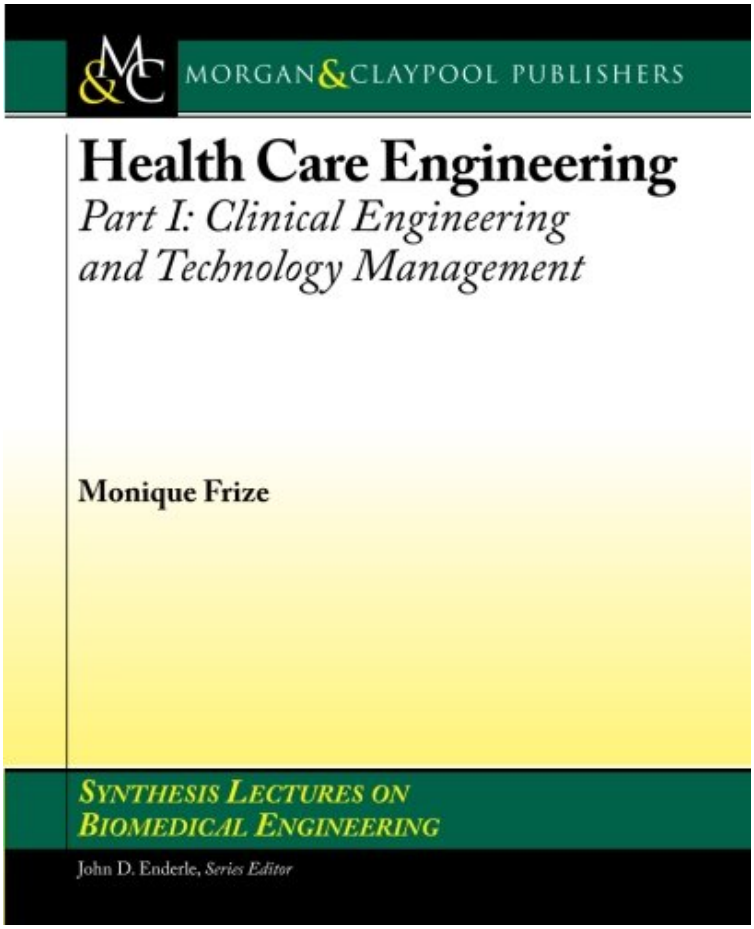

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The first chapter describes the health care delivery systems in Canada and in the U.S. This is followed by examples of various approaches used to measure physiological variables in humans, either for the purpose of diagnosis or

monitoring potential disease conditions; a brief description of sensor technologies is included. The function and role of the clinical engineer in managing medical technologies in industrialized and in developing countries are presented. This is followed by a chapter on patient safety (mainly electrical safety and electromagnetic interference); it includes a section on how to minimize liability and how to develop a quality assurance program for technology management. The next chapter discusses applications of telemedicine, including technical, social, and ethical issues. The last chapter presents a discussion on the impact of technology on health care and the technology assessment process. This two-part book consolidates material that supports courses on technology development and management issues in health care institutions. It can be useful for anyone involved in design, development, or research, whether in industry, hospitals, or government. Table of Contents: Preface / The Health Care System in North America (Canada and U.S.) / Measuring Physiological Variables in Humans / Management of Medical Technologies in Industrialized and Developing Countries / Safety Considerations, Minimizing Liability, and Continuous Quality Improvement (CQI) / Telemedicine: Applications and Issues / Impact of Technology on Health Care and the Technology Assessment Process