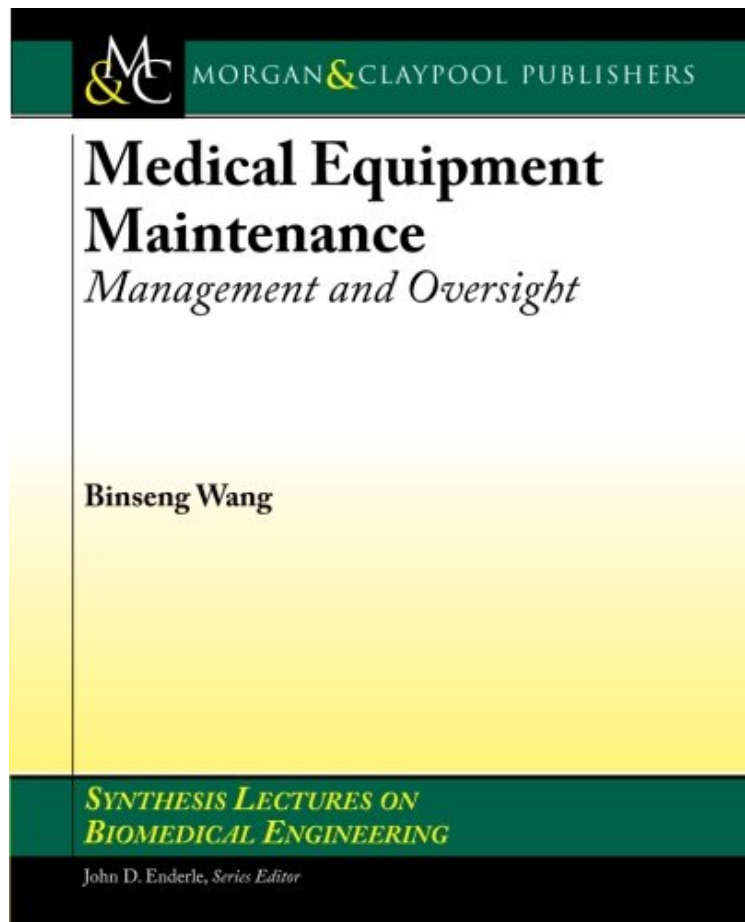


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# Medical Equipment Maintenance: Management and Oversight (Synthesis Lectures on Biomedical Engineering)

*Binseng Wang*

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**Binseng Wang : Medical Equipment Maintenance: Management and Oversight (Synthesis Lectures on Biomedical Engineering)** before purchasing it in order to gage whether or not it would be worth my time, and all praised Medical Equipment Maintenance: Management and Oversight (Synthesis Lectures on Biomedical Engineering):

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Book Review for ACCE News: Tom Judd, ACCE Advocacy, March 2013  
Dr. Wang is SMART. So is his new book, just released in 2012. Let's find out why.  
The book's content-scope: Regulatory Framework; Core Functions; Clinical Engineering (CE) Department Management; Performance Management; Challenges; Sample Policies; Internet-Data Sources.  
Specific Safety and affordability. Core foundations "laws, regulations, codes, and standards": Examples: federal/state laws/regulations enforced through CMS - e.g., Medicare accounts for 47% of all U.S. healthcare reimbursement, FDA, OCR (e.g., HIPPA), OSHA, and FEMA, often via hospital accreditation (e.g, TJC). Or standards and codes from NFPA and AAMI. Re affordability, book is aimed not only at better informing Medical Equipment Management (MEM) practitioners, but overseers as well, e.g., "hospital COO, CFO, VP of Support Services, Supply Chain, Information Technology-IT ... and hospital administrators". "Studies have indicated that annual medical equipment maintenance and management cost is approximately 1% of the total hospital budget, so a 500-bed hospital spends typically around \$5 million/year." Re safety: "In addition to its high maintenance costs, medical equipment is often involved in patient incidents that resulted in serious injuries or deaths." Measurable Two (of several) examples cited - Total cost of ownership, and Reliability, usually measured by the availability of equipment for clinical use. An extensive Table defining "Failure Codes" that can help CE departments "determine appropriate adjustments to the maintenance program." Attainable and Relevant Sample balanced scorecard for a CE Department: service strategies, efficiency, effectiveness, staff motivation and growth potential. Timely In this era of Electronic Medical Records (EMRs) and medical devices central to attaining Meaningful Use, Dr. Wang concludes with examples that ongoing and timely course corrections are vital to hospital and healthcare management success. Reviewer's Conclusion I strongly recommend this resource for the full gamut of healthcare stakeholders: new and experienced Clinical Engineers, for those preparing for CCE certification exams, as well as for those healthcare leaders that will either oversee or work alongside clinical engineers in the U.S. and around the world.

In addition to being essential for safe and effective patient care, medical equipment also has significant impact on the income and, thus, vitality of healthcare organizations. For this reason, its maintenance and management requires careful supervision by healthcare administrators, many of whom may not have the technical background to understand all of the relevant factors. This book presents the basic elements of medical equipment maintenance and management required of healthcare leaders responsible for managing or overseeing this function. It will enable these individuals to understand their professional responsibilities, as well as what they should expect from their supervised staff and how to measure and benchmark staff performance against equivalent performance levels at similar organizations. The book opens with a foundational summary of the laws, regulations, codes, and standards that are applicable to the maintenance and management of medical equipment in healthcare organizations. Next, the core functions of the team responsible for maintenance and management are described in sufficient detail for managers and overseers. Then the methods and measures for determining the effectiveness and efficiency of equipment maintenance and management are presented to allow performance management and benchmarking comparisons. The challenges and opportunities of managing healthcare organizations of different sizes, acuity levels, and geographical locations are discussed. Extensive bibliographic sources and material for further study are provided to assist students and healthcare leaders interested in acquiring more detailed knowledge. Table of Contents: Introduction / Regulatory Framework / Core Functions of Medical Equipment Maintenance and Management / CE Department Management / Performance Management / Discussion and Conclusions