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Nota di bibliografia	Includes bibliographical references (p. 189-210) and index.
Nota di contenuto	Contents ; Preface ; 1 Introduction ; 1.1 Background ; 1.2 Medical Error-Related Facts and Figures ; 1.3 Terms and Definitions ; 1.4 Useful Information on Human Reliability and Error in Medicine ; 1.4.1 Books ; 1.4.2 Journals ; 1.4.3 Conference Proceedings ; 1.4.4 Organizations 1.5 Scope of the Book Problems ; References ; 2 Human Reliability and Error Mathematics ; 2.1 Introduction ; 2.2 Sets and Boolean Algebra Laws ; 2.3 Probability Definition and Properties ; 2.4 Discrete Random Variables and Probability Distributions ; 2.4.1 Binomial Distribution 2.4.2 Poisson Distribution 2.4.3 Geometric Distribution ; 2.5 Continuous Random Variables and Probability Distributions ; 2.5.1 Exponential Distribution ; 2.5.2 Rayleigh Distribution ; 2.5.3 Weibull Distribution ; 2.5.4 Normal Distribution ; 2.5.5 Gamma Distribution

2.6 Laplace Transform Definition and Final Value Theorem
2.7 Differential Equation Solution ; Problems
; References ; 3 Human Factors Basics ; 3.1
Introduction ; 3.2 Man-Machine System Types and
Comparisons ; 3.3 Human Behaviors
3.3.1 Typical Human Behaviors and the Corresponding Design
Considerations
3.3.2 Behavior Towards Safety for the Different Age Groups
; 3.4 Human Sensory Capacities ; 3.4.1 Sight
; 3.4.2 Noise ; 3.4.3 Touch ; 3.4.4 Vibration
; 3.5 Human Body Measurements
3.6 Human Factors-Related Formulas

Sommario/riassunto

Human reliability and error have become a very important issue in health care, owing to the vast number of associated deaths each year. For example, according to the findings of the Institute of Medicine in 1999, around 100000 Americans die each year because of human error. This makes human error in health care the eighth leading cause of deaths in the US. Moreover, the total annual national cost of the medical errors is estimated at between 17 billion and 37.6 billion. There are very few books on this subject, and none of them covers it at a significant depth. The need for a book presenting
