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Reliability Engineering Reliabilitas adalah probabilitas dari sebuah item akan bekerja sesuai fungsi yang semestinya tan This volume, one of two devoted to the subject, covers the range of reliability engineering, from product and system design through manufacturing, implementation and maintenance. Illustrated with practical examples, the books show how to specify components, equipment and system reliability - and how to implement these requirements. Comprehensive and easy to understand, these books demonstrate how to analyze time-to-failure data from components, systems and equipment to obtain their distribution, reliability, failure rate and mean lifespan; provide theoretical and practical tools for designing, testing and implementing the probability and capacity of parts, components, equipment, products and systems performance; and include applications to purchasing, engineering, research, development, manufacturing and quality control. Home / Bookstore / Reliability Engineering / Reliability Engineering Handbook, Volume 2 Preview Available Description Table of Contents Purchase by eChapter About the Author Comprehensive, systematic presentation Theoretical foundations, analytical tools, and practical applications Illustrated by numerous worked examples The demand for reliable products, components, and systems has never been greater, especially among organizations seeking greater competitiveness in world markets. This handbook is widely used in engineering education and industrial practice. It provides a comprehensive, systematic presentation of today's reliability engineering for optimized design engineering of products, parts, components and equipment. Theoretical fundamentals, prediction methods, and applications are clearly covered in detail. Numerous worked examples illustrate concepts and procedures. The extensive reference data in appendices add to the volume's practical utility. Expanding on the coverage provided in Volume 1, Volume 2 does the following: Covers the prediction of equipment and system reliability for the series, parallel, standby, and conditional function configuration cases. Discusses the prediction of the reliability of complex components, equipment, and systems with multimode function and logic, multistress level of function, load sharing function mode, static itches, cyclic switches, and fault tree analysis. Includes five practical and comprehensive case histories of predicting equipment and system reliabilities and comparing them with their reliability goals. Presents Drenick's theorem of complex systems times-to-failure distributions. Explores the reliability of components with a policy of replacing those that fail by a prescribed operating time. Talks about methods of allocation, or apportionment, of equipment's or system's reliability goal to its subsystems. Examines reliability growth and test-analyze-and-fix models to quantify when the mean-time-between-failures (MTBF) and reliability goals of products under development will be attained. Contains failure modes, effects, and criticality analysis (FAMECA) methods to identify design improvement areas. Problems and reference sections are included in each chapter. Preface Chapter 1-Reliability of Series Systems N Unit Reliabilitywise Series System Exponential Units Weibullian Units Chapter 2-Reliability of Parallel Systems N Unit Reliabilitywise Parallel System Exponential Parallel Units Weibullian Units Chapter 3-Reliability of Standby Systems What Is A Standby System? 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Kececioglu, Ph.D., P.E., is Professor of Aerospace and Mechanical Engineering at The University of Arizona, in charge of the university's Graduate Reliability Engineering Program, and a recognized authority on Reliability Engineering. He brings to these books his many years of experience in engineering education, consulting and writing. Dr. Kececioglu is a Fullbright Scholar, a Fellow of the Society of Automotive Engineers (SAE), a Fellow of the American Society for Quality (ASQ), the author of thirteen books and more than 150 published papers, and the recipient of numerous engineering awards including the Ralph R. Teeter Award of the SAE. He received his M.S. in Industrial Engineering and Ph.D. in Engineering Mechanics from Purdue University. 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