

Ramakumar Reliability Engineering

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~~He was named a Regents Professor in 2008. His research interests are in renewable energy, energy conversion, power engineering, energy storage, engineering reliability, and alternate energy sources. In 1992, Dr. Ramakumar received the Halliburton Outstanding Faculty Award in the OSU College of Engineering, Architecture, and Technology.~~

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~~Ramakumar, R. G., Ph.D. | School of Electrical and ...~~

~~He is the author of the text book :Engineering Reliability Fundamentals and Applications© (Englewood Cliffs, NY, Prentice-Hall, 1993). Dr. Ramakumar's past and present leadership activities in the IEEE Power Engineering Society include chairing the Awards Committee of the Technical Council, the award Subcommittee of the Power Engineering Education Committee, the Energy Development Subcommittee of the Energy Development and Power Generation Committee, the Working Group on Renewable ...~~

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~~Reliability engineering is a sub-discipline of systems engineering that emphasizes the ability of equipment to function without failure. Reliability describes the ability of a system or component to function under stated conditions for a specified period of time. Reliability is closely related to availability, which is typically described as the ability of a component or system to function at ...~~

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~~Dr. R. G. Ramakumar received his B.E. in electrical engineering from the University of Madras, India, in 1956 and his Ph.D. from Cornell University in 1962. His areas of interest include energy conversion, renewable energy, sources and systems, energy storage, power engineering and engineering reliability.~~

~~A general introduction to the fundamentals and applications of classical concepts in reliability engineering that cuts cross all branches of engineering. Reviews the basics of probability and random variables.~~

~~This compact and easy-to-understand text presents the underlying principles and practice of reliability engineering and life testing. It describes the various techniques available for reliability analysis and prediction and explains the statistical methods necessary for reliability modelling, analysis and estimation. The text also discusses in detail the concepts of life testing, its classification and methodologies as well as accelerated life tests, the methodologies and models of stress related failure rates evaluation, and data analysis. Besides, it elaborates on the principles, methods and equipment of highly accelerated life testing and highly accelerated stress screening. Finally, the book concludes with a discussion on the parametric as well as non-parametric methods generally used for reliability estimation, and the recent developments in life testing of engineering components. Key Features The book is up-to-date and very much relevant to the present industrial, research, design, and development scenarios. Provides adequate tools to predict the system reliability at the design stage, to plan and conduct life testing on the products at various stages of development, and to use the life test and field data to estimate the product reliability. Gives sufficiently large number of worked-out examples. Primarily intended as a textbook for the postgraduate students of engineering (M.Tech., Reliability Engineering), the book would also be quite useful for reliability practitioners, professional engineers, and researchers.~~

~~Decision Making in Systems Engineering and Management is a comprehensive textbook that provides a logical process and analytical techniques for fact-based decision making for the most challenging systems problems. Grounded in systems thinking and based on sound systems engineering principles, the systems decisions process (SDP) leverages multiple objective decision analysis, multiple attribute value theory, and value-focused thinking to define the problem, measure stakeholder value, design creative solutions, explore the decision trade off space in the presence of uncertainty, and structure successful solution implementation. In addition to classical systems engineering problems, this approach has been successfully applied to a wide range of challenges including personnel recruiting, retention, and management; strategic policy analysis; facilities design and management; resource allocation; information assurance; security systems design; and other settings whose structure can be conceptualized as a system.~~

~~This comprehensive textbook provides a logical process for fact-based decision making for the most challenging systems problems. It is composed of three bedrock elements to improve readers' understanding and analysis of the most challenging systems problems that exist today: systems thinking, which identifies important interconnections between a system and its environment; systems engineering, which describes the activities of professional systems engineers; and systems decision making, which provides fact-based information to support major system decisions made at every life cycle stage.~~

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