MATHEMATICAL THEORY OF RELIABILITY

By RICHARD E. BARLOW and FRANK PROSCHAN

with contribut[...] Larry C. Hunter

A new and
systematic treatment of the
theory of reliability,
with applications.

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Roman Slowiński

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Mathematical Theory of Reliability Richard E. Barlow,Frank Proschan,1996-01-01 This monograph presents a survey of mathematical models useful in solving reliability problems It includes a detailed discussion of life distributions corresponding to wearout and their use in determining maintenance policies and covers important topics such as the theory of increasing decreasing failure rate distributions optimum maintenance policies and the theory of coherent systems The emphasis throughout the book is on making minimal assumptions and only those based on plausible physical considerations so that the resulting mathematical deductions may be safely made about a large variety of commonly occurring reliability situations The first part of the book is concerned with component reliability while the second part covers system reliability including problems that are as important today as they were in the 1960s The enduring relevance of the subject of reliability and the continuing demand for a graduate level book on this topic are the driving forces behind its re publication   Mathematical Theory of Reliability Richard E. Barlow,Frank Proschan,1965-01 This monograph presents a survey of mathematical models useful in solving reliability problems It includes a detailed discussion of life distributions corresponding to wearout and their use in determining maintenance policies and covers important topics such as the theory of increasing decreasing failure rate distributions optimum maintenance policies and the theory of coherent systems The emphasis throughout the book is on making minimal assumptions and only those based on plausible physical considerations so that the resulting mathematical deductions may be safely made about a large variety of commonly occurring reliability situations The first part of the book is concerned with component reliability while the second part covers system reliability including problems that are as important today as they were in the 1960s The enduring relevance of the subject of reliability and the continuing demand for a graduate level book on this topic are the driving forces behind its re publication   **Mathematical Theory of Reliability** Richard E. Barlow,Frank Proschan,1996   *Mathematical Theory of Reliability* Richard E. Barlow,1965   Mathematical Theory of Reliability [by] Richard E. Barlow [and] Frank Proschan, with Contributions by Larry C. Hunter Richard E. Barlow,1965   **Mathematical Theory of Reliability of Time Dependent Systems with Practical Applications** Igor N. Kovalenko,Philip A. Pegg,1997-07-16 One of the greatest problems in engineering is reliability The performance of all machinery degrades over time and unless counteraction is taken at some point any system will eventually fail Once a system fails there are a number of possible solutions the mathematical and statistical measurement and analysis of these solutions forms the mathematical theory of reliability The aim of the authors is to concentrate on aspects of particular importance in the mathematical theory of reliability of time dependent systems rather than give a general overview Particular emphasis is placed on fault tree analysis Monte Carlo methods and importance measures This book will be of particular interest to applied researchers and engineers working in areas where reliability is crucial Contents Introduction Markov and Semi Markov models as a basis for the mathematical analysis of system reliability methods for investigating homogeneous and non

homogeneous point processes event flows fault trees the current state of research theory of redundant systems Monte Carlo methods reliability analysis using perturbation methods stiff processes in reliability analysis variance reduction methods analytical statistical methods for rapid simulation of repairable systems with structure redundancy measures of reliability importance of components index **Mathematical Theory of Reliability. [By] R. E. Barlow ... F. Proschan ... with contributions by Larry C. Hunter** Richard Eugene BARLOW (and PROSCHAN (Frank)),Larry C. HUNTER,Frank Proschan,1965 **Mathematical Methods of Reliability Theory** B. V. Gnedenko,Yu. K. Belyayev,A. D. Solovyev,2014-06-20 Mathematical Methods of Reliability Theory discusses fundamental concepts of probability theory mathematical statistics and an exposition of the relationships among the fundamental quantitative characteristics encountered in the theory The book deals with the set theoretic approach to reliability theory and the central concepts of set theory to the phenomena It also presents methods of finding estimates for reliability parameters based on observations and methods of testing reliability hypotheses Based on mathematical statistics the book also explains formulation of some selected results It presents a method that increases the reliability of manufactured articles redundancy An important part of product quality control is the standards of acceptance sampling plans which require simplicity wide content for flexibility comprehensive characteristics and variability The book also tackles economical and rational methods of sampling inspections highlighting the need for a correct evaluation of environmental conditions the factors which predetermine the choice of the inspection method The book then explains how to estimate the efficiency of the operation of the sampling plan after its selection The book can be helpful for engineers mathematicians economists or industrial managers as well as for other professionals who work in the technological political research structural and physico chemical areas **A Mathematical Theory of Hints** Juerg Kohlas,Paul-Andre Monney,2013-11-11 An approach to the modeling of and the reasoning under uncertainty The book develops the Dempster Shafer Theory with regard to the reliability of reasoning with uncertain arguments Of particular interest here is the development of a new synthesis and the integration of logic and probability theory The reader benefits from a new approach to uncertainty modeling which extends classical probability theory **Probability Theory, Mathematical Statistics, and Theoretical Cybernetics** R. V. Gamkrelidze,2013-03-09 70 4 Elimination of Inadmissible M Races 73 5 Elimination of Inadmissible L Races 86 **Recent Advances in Reliability Theory** Nikolaos Limnios,Mikhail Stepanovich Nikulin,2000 Conceiving reliablesystems is a strategic issue for any industrial society Hence reliability has become a discipline at the beginning of the Second World War In fact reliability is a field of reseach common to mathematics operational research informatics graph theory physics and so forth We are concerned here with the mathematical side of reliability of which probability statistics and more specially stochastic processes theory constitute the natural basis US army during the war and later in the US Problems encountered by the and Soviet space programs have led to an awarenessofthe need for reliabilityor more generaly for dependability a general term covering

reliability availability security maintainability etc of the systems The paper by W Weibull of 1938 on the strength of materials leading to the distribution that later took his name and the paper by B Epstein and M Sobel of 1951 initiating the use of the exponential distribution as the basic and now most used model for reliability are the founding papers of the field At this time the systems were merely seen as black boxes During the 1960s they began to be considered as the result of the interaction of their elements Appropriate methods were then developed from Shannon s work to the beautiful theory of coherent systems initiated by Z W Birnbaum J D **Mathematical Models for Systems Reliability** Benjamin Epstein,Ishay Weissman,2008-05-09 Evolved from the lectures of a recognized pioneer in developing the theory of reliability Mathematical Models for Systems Reliability provides a rigorous treatment of the required probability background for understanding reliability theory This classroom tested text begins by discussing the Poisson process and its associated probability **Fuzzy Sets in Decision Analysis, Operations Research and Statistics** Roman Slowiński,2012-12-06 Fuzzy Sets in Decision Analysis Operations Research and Statistics includes chapters on fuzzy preference modeling multiple criteria analysis ranking and sorting methods group decision making and fuzzy game theory It also presents optimization techniques such as fuzzy linear and non linear programming applications to graph problems and fuzzy combinatorial methods such as fuzzy dynamic programming In addition the book also accounts for advances in fuzzy data analysis fuzzy statistics and applications to reliability analysis These topics are covered within four parts Decision Making Mathematical Programming Statistics and Data Analysis and Reliability Maintenance and Replacement The scope and content of the book has resulted from multiple interactions between the editor of the volume the series editors the series advisory board and experts in each chapter area Each chapter was written by a well known researcher on the topic and reviewed by other experts in the area These expert reviewers sometimes became co authors because of the extent of their contribution to the chapter As a result twenty five authors from twelve countries and four continents were involved in the creation of the 13 chapters which enhances the international character of the project and gives an idea of how carefully the Handbook has been developed Queueing Theory 2 Vladimir Anisimov,Nikolaos Limnios,2021-04-13 The aim of this book is to reflect the current cutting edge thinking and established practices in the investigation of queueing systems and networks This second volume includes eight chapters written by experts wellknown in their areas The book conducts a stability analysis of certain types of multiserver regenerative queueing systems a transient evaluation of Markovian queueing systems focusing on closed form distributions and numerical techniques analysis of queueing models in service sectors using analytical and simulation approaches plus an investigation of probability distributions in queueing models and their use in economics industry demography and environmental studies This book also considers techniques for the control of information in queueing systems and their impact on strategic customer behavior social welfare and the revenue of monopolists In addition applications of maximum entropy methods of inference for the analysis of a stable M G 1 queue with heavy tails and inventory models with positive

service time including perishable items and stock supplied using various algorithmic control policies s S r Q etc <u>NASA Technical Translation</u> ,1974 *The Mathematical Theory of Information* Jan Kåhre,2012-12-06 The general concept of information is here for the first time defined mathematically by adding one single axiom to the probability theory This Mathematical Theory of Information is explored in fourteen chapters 1 Information can be measured in different units in anything from bits to dollars We will here argue that any measure is acceptable if it does not violate the Law of Diminishing Information This law is supported by two independent arguments one derived from the Bar Hillel ideal receiver the other is based on Shannon s noisy channel The entropy in the classical information theory is one of the measures conforming to the Law of Diminishing Information but it has however properties such as being symmetric which makes it unsuitable for some applications The measure reliability is found to be a universal information measure 2 For discrete and finite signals the Law of Diminishing Information is defined mathematically using probability theory and matrix algebra 3 The Law of Diminishing Information is used as an axiom to derive essential properties of information Byron s law there is more information in a lie than in gibberish Preservation no information is lost in a reversible channel Etc The Mathematical Theory of Information supports colligation i e the property to bind facts together making two plus two greater than four Colligation is a must when the information carries knowledge or is a base for decisions In such cases reliability is always a useful information measure Entropy does not allow colligation *Analytical and Computational Methods in Probability Theory* Vladimir V. Rykov,Nozer D. Singpurwalla,Andrey M. Zubkov,2017-12-21 This book constitutes the refereed proceedings of the First International Conference on Analytical and Computational Methods in Probability Theory and its Applications ACMPT 2017 held in Moscow Russia in October 2017 The 42 full papers presented were carefully reviewed and selected from 173 submissions The conference program consisted of four main themes associated with significant contributions made by A D Soloviev These are Analytical methods in probability theory Computational methods in probability theory Asymptotical methods in probability theory the history of mathematics **Theory and Tables for Tests of Hypotheses Concerning the Mean and the Variance of a Weibull Population** Harman Leon Harter,Satya D. Dubey,1967 <u>The Theory of Measures and Integration</u> Eric M. Vestrup,2009-09-25 An accessible clearly organized survey of the basic topics of measure theory for students and researchers in mathematics statistics and physics In order to fully understand and appreciate advanced probability analysis and advanced mathematical statistics a rudimentary knowledge of measure theory and like subjects must first be obtained The Theory of Measures and Integration illuminates the fundamental ideas of the subject fascinating in their own right for both students and researchers providing a useful theoretical background as well as a solid foundation for further inquiry Eric Vestrup s patient and measured text presents the major results of classical measure and integration theory in a clear and rigorous fashion Besides offering the mainstream fare the author also offers detailed discussions of extensions the structure of Borel and Lebesgue sets set theoretic considerations the Riesz representation theorem and the

Hardy Littlewood theorem among other topics employing a clear presentation style that is both evenly paced and user friendly Chapters include Measurable Functions The Lp Spaces The Radon Nikodym Theorem Products of Two Measure Spaces Arbitrary Products of Measure Spaces Sections conclude with exercises that range in difficulty between easy finger exercisesand substantial and independent points of interest These more difficult exercises are accompanied by detailed hints and outlines They demonstrate optional side paths in the subject as well as alternative ways of presenting the mainstream topics In writing his proofs and notation Vestrup targets the person who wants all of the details shown up front Ideal for graduate students in mathematics statistics and physics as well as strong undergraduates in these disciplines and practicing researchers The Theory of Measures and Integration proves both an able primary text for a real analysis sequence with a focus on measure theory and a helpful background text for advanced courses in probability and statistics **PROBABILITY AND STATISTICS - Volume II** Reinhard Viertl,2009-06-11 Probability and Statistics theme is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme with contributions from distinguished experts in the field discusses Probability and Statistics Probability is a standard mathematical concept to describe stochastic uncertainty Probability and Statistics can be considered as the two sides of a coin They consist of methods for modeling uncertainty and measuring real phenomena Today many important political health and economic decisions are based on statistics This theme is structured in five main topics Probability and Statistics Probability Theory Stochastic Processes and Random Fields Probabilistic Models and Methods Foundations of Statistics which are then expanded into multiple subtopics each as a chapter These three volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

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