

# Stochastic Models in Reliability and Maintenance

SHUNJI OSAKI  
Editor



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# Stochastic Models In Reliability And Maintenance

**Makram Krit, Abdelwaheb Rebai**



## **Stochastic Models In Reliability And Maintenance:**

Stochastic Models in Reliability and Maintenance Shunji Osaki,2012-11-02 Our daily lives can be maintained by the high technology systems Computer systems are typical examples of such systems We can enjoy our modern lives by using many computer systems Much more importantly we have to maintain such systems without failure but cannot predict when such systems will fail and how to fix such systems without delay A stochastic process is a set of outcomes of a random experiment indexed by time and is one of the key tools needed to analyze the future behavior quantitatively Reliability and maintainability technologies are of great interest and importance to the maintenance of such systems Many mathematical models have been and will be proposed to describe reliability and maintainability systems by using the stochastic processes The theme of this book is Stochastic Models in Reliability and Maintainability This book consists of 12 chapters on the theme above from the different viewpoints of stochastic modeling Chapter 1 is devoted to Renewal Processes under which classical renewal theory is surveyed and computational methods are described Chapter 2 discusses Stochastic Orders and in it some definitions and concepts on stochastic orders are described and aging properties can be characterized by stochastic orders Chapter 3 is devoted to Classical Maintenance Models under which the so called age block and other replacement models are surveyed Chapter 4 discusses Modeling Plant Maintenance describing how maintenance practice can be carried out for plant maintenance

**Stochastic Models in Reliability and Maintenance** Shunji Osaki,2014-01-15

**Stochastic Models in Reliability** Terje Aven,Uwe Jensen,2013-08-04 This book provides a comprehensive up to date presentation of some of the classical areas of reliability based on a more advanced probabilistic framework using the modern theory of stochastic processes This framework allows analysts to formulate general failure models establish formulae for computing various performance measures as well as determine how to identify optimal replacement policies in complex situations In this second edition of the book two major topics have been added to the original version copula models which are used to study the effect of structural dependencies on the system reliability and maintenance optimization which highlights delay time models under safety constraints Terje Aven is Professor of Reliability and Risk Analysis at University of Stavanger Norway Uwe Jensen is working as a Professor at the Institute of Applied Mathematics and Statistics of the University of Hohenheim in Stuttgart Germany Review of first edition This is an excellent book on mathematical statistical and stochastic models in reliability The authors have done an excellent job of unifying some of the stochastic models in reliability The book is a good reference book but may not be suitable as a textbook for students in professional fields such as engineering This book may be used for graduate level seminar courses for students who have had at least the first course in stochastic processes and some knowledge of reliability mathematics It should be a good reference book for researchers in reliability mathematics Mathematical Reviews 2000

**Stochastic Models in Reliability Engineering** Lirong Cui,Iliia Frenkel,Anatoly Lisnianski,2020-07-29 This book is a collective work by many leading scientists analysts mathematicians and engineers who

have been working at the front end of reliability science and engineering The book covers conventional and contemporary topics in reliability science all of which have seen extended research activities in recent years The methods presented in this book are real world examples that demonstrate improvements in essential reliability and availability for industrial equipment such as medical magnetic resonance imaging power systems traction drives for a search and rescue helicopter and air conditioning systems The book presents real case studies of redundant multi state air conditioning systems for chemical laboratories and covers assessments of reliability and fault tolerance and availability calculations Conventional and contemporary topics in reliability engineering are discussed including degradation networks dynamic reliability resilience and multi state systems all of which are relatively new topics to the field The book is aimed at engineers and scientists as well as postgraduate students involved in reliability design analysis experiments and applied probability and statistics

*Reliability Theory and Models* Mohamed Abdel-Hameed,2012-12-02 Reliability Theory and Models Stochastic Failure Models Optimal Maintenance Policies Life Testing and Structures contains the proceedings of a Symposium on Stochastic Failure Models Replacement and Maintenance Policies and Accelerated Life Testing held in Charlotte North Carolina on June 24 26 1983 Contributors discuss the directions for research on stochastic failure models and maintenance and replacement policies as well as statistical and computational aspects of reliability This text is divided into five sections and is comprised of 17 chapters the first of which introduces the reader to Markov and semi Markov models of deterioration in light of the results on representation and characterization of Markov processes The discussion then turns to the concept of minimal repair situations in which the appropriate stochastic process is a damage or wear process and optimum policies for several maintenance models based on the imperfect repair model of Brown and Proschan The chapters that follow explore optimal replacement for self repairing shock models the implementation of an iterative scheme for certain Markovian wear damage models and a Markov decision model for determining the optimal inventories of repairable spare parts for redundant systems This book also considers the reliability and maintenance of very large complex systems from the perspective of the U S Air Force This reference material will be of interest to students and active researchers in the fields of mathematics and engineering

**Reliability Theory and Models** Mohamed S. Abdel-Hameed,1984 **Stochastic Processes** Toshio Nakagawa,2011-05-27 Reliability theory is of fundamental importance for engineers and managers involved in the manufacture of high quality products and the design of reliable systems In order to make sense of the theory however and to apply it to real systems an understanding of the basic stochastic processes is indispensable As well as providing readers with useful reliability studies and applications Stochastic Processes also gives a basic treatment of such stochastic processes as the Poisson process the renewal process the Markov chain the Markov process and the Markov renewal process Many examples are cited from reliability models to show the reader how to apply stochastic processes Furthermore Stochastic Processes gives a simple introduction to other stochastic processes such as the cumulative process the Wiener process the

Brownian motion and reliability applications Stochastic Processes is suitable for use as a reliability textbook by advanced undergraduate and graduate students It is also of interest to researchers engineers and managers who study or practise reliability and maintenance

Stochastic Reliability Modeling, Optimization and Applications Syouji Nakamura, Toshio Nakagawa, 2010

- 1 Multistate coherent systems Fumio Ohi
- 2 Cumulative damage models Takashi Satow
- 3 Extended inspection models Satoshi Mizutani
- 4 Stochastic analyses for hybrid state saving and its experimental validation Mamoru Ohara Masayuki Arai and Satoshi Fukumoto
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Stochastic Models in Reliability Theory S. Osaki, Y. Hatoyama, 2013-03-08

**Stochastic Modelling of the Maintenance Effect on Systems Reliability** Makram Krit, Abdelwaheb Rebai, 2011-10 This book deals to stochastic modelling and the parametric estimation of the maintenance efficiency for industrial systems in degradation The assessing criterion of the maintenance efficiency is supported with the failure intensity in the bath tub form The study is devoted to the reformulation of the Brown Proschan model and that of models called arithmetic reduction of intensity and age Relevant results relating to the theoretical properties of the maintenance efficiency estimators based on the simulation method allow to better understand the system behaviour Ultimately a method assessing of the efficiency relating to the total process of corrective and preventive maintenances is developed and illustrated on a basis of real data issued from industry

**Nutritional Care of the Patient with Gastrointestinal Disease** Alan L Buchman, 2015-08-06 This evidence based book serves as a clinical manual as well as a reference guide for the diagnosis and management of common nutritional issues in relation to gastrointestinal disease Chapters cover nutrition assessment macro and micronutrient absorption malabsorption food allergies prebiotics and dietary fiber probiotics and intestinal microflora nutrition and GI cancer nutritional management of reflux nutrition in IBS and IBD nutrition in acute and chronic pancreatitis enteral nutrition parenteral nutrition medical and endoscopic therapy of obesity surgical therapy of obesity pharmacologic nutrition and nutritional counseling

**Numerical Modelling of Discrete Materials in Geotechnical Engineering, Civil Engineering and Earth Sciences** Heinz Konietzky, 2004-10-15 In this fully up to date volume important new developments and applications of discrete element modelling are highlighted and brought together for presentation at the First International UDEC 3DEC Symposium Papers covered the following key areas behaviour of masonry structures walls bridges towers columns stability and deformation of tunnels and caverns in fractured rock masses geomechanical modelling for mining and waste repositories rock reinforcement design anchors shotcrete bolts mechanical and hydro mechanical behaviour of dams and foundations rock slope stability deformation and failure mechanisms modelling of fundamental rock

mechanical problems modelling of geological processes constitutive laws for fractured rock masses and masonry structures dynamic behaviour of discrete structures Numerical Modelling of Discrete Materials in Geotechnical Engineering Civil Engineering and Earth Sciences provides an ultra modern in depth analysis of discrete element modelling in a range of different fields thus proving valuable reading for civil mining and geotechnical engineers as well as other interested professionals *Stochastic Models in Reliability Theory* S Osaki,Y Hatoyama,1984-12-01 Mathematical Reviews ,2003

Stochastic Reliability and Maintenance Modeling Tadashi Dohi,Toshio Nakagawa,2013-04-18 In honor of the work of Professor Shunji Osaki Stochastic Reliability and Maintenance Modeling provides a comprehensive study of the legacy of and ongoing research in stochastic reliability and maintenance modeling Including associated application areas such as dependable computing performance evaluation software engineering communication engineering distinguished researchers review and build on the contributions over the last four decades by Professor Shunji Osaki Fundamental yet significant research results are presented and discussed clearly alongside new ideas and topics on stochastic reliability and maintenance modeling to inspire future research Across 15 chapters readers gain the knowledge and understanding to apply reliability and maintenance theory to computer and communication systems Stochastic Reliability and Maintenance Modeling is ideal for graduate students and researchers in reliability engineering and workers managers and engineers engaged in computer maintenance and management works **Value Based and Intelligent Asset Management** Adolfo Crespo

Márquez,Marco Macchi,Ajith Kumar Parlikad,2019-06-29 The fundamental motivation of this book is to contribute to the future advancement of Asset Management in the context of industrial plants and infrastructures The book aims to foster a future perspective that takes advantage of value based and intelligent asset management in order to make a step forward with respect to the evolution observed nowadays Indeed the current understanding of asset management is primarily supported by well known standards Nonetheless asset management is still a young discipline and the knowledge developed by industry and academia is not set in stone yet Furthermore current trends in new organizational concepts and technologies lead to an evolutionary path in the field Therefore this book aims to discuss this evolutionary path starting first of all from the consolidated theory then moving forward to discuss The strategic understanding of value based asset management in a company An operational definition of value as a concept on the background of value based asset management The identification of intelligent asset management with the aim to frame a set of tools recommended to support the asset related decision making process over the asset lifecycle The emergence of new technologies such as cyber physical systems and digital twins and the implications of this on asset management *Stochastic Reliability Modelling for Complex Systems* Awelani Malada,2013 Two well known methods of improving the reliability of a system are i provision of redundant units and ii repair maintenance In a redundant system more units are made available for performing the system function when fewer are required exactly There are two major types of redundancy parallel and standby In this thesis we confine to both

these redundant systems A series system is also studied Some of the typical assumptions made in the analysis of redundant systems are i the repair times are assumed to be exponential ii the system measures are modeled but not estimated iii the system is available continuously iv environmental factors not affecting the system v the failures take place only in one stage vi the switching device is perfect vii system reliability for given chance constraints viii the time required to transfer a unit from the standby state to the operating stage is negligible instantaneous switchover ix the failures and repairs are independent However we frequently come across systems where one or more of these assumptions have to be dropped This is the motivation for the detailed study of the models presented in this thesis In this thesis we present several models of redundant systems relaxing one or more of these assumptions simultaneously More specifically it is a study of stochastic models of redundant repairable systems with rest period for the operator non instantaneous switchover imperfect switch intermittent use and series system optimization The thesis contains seven chapters Chapter 1 is introductory in nature and contains a brief description of the mathematical techniques used in the analysis of redundant systems In chapter 2 a two unit system with Erlangian repair time is studied by relaxing the assumptions i and ii The difference differential equations are formulated for the state probabilities and the system measures like reliability and the availability are obtained over a long run The asymptotic interval estimation is studied for these system measures The model has been illustrated numerically In chapter 3 an  $n$  unit system operating intermittently and in a random environment is studied by relaxing the assumptions iii and iv In an intermittently used system the mean number of disappointments is one of the important measures which has been obtained for this system in the steady state In chapter 4 the assumption v and vi are relaxed In most of the models studied earlier in reliability analysis is the study of system measures like reliability and availability In this chapter profit analysis of a single unit system with three possible modes of the failure of the unit is studied This chapter consists of two models in model 1 the unit goes under repair if a repairman is available the moment it fails partially whereas in model 2 the unit goes under repair at complete failure The repairman appears in and disappears from the system randomly A comparison between these two models has been studied after calculating numerically the profit and the MTSF Contrary to the previous chapters stochastic optimization is studied using the Branch and Bound technique in chapter 5 relaxing the assumption vii In this chapter an  $n$  unit system operating in a random environment is considered The environment determines the number of units required for the satisfactory performance of the system Assuming that a unit in standby can fail and that the environment is described by a Markov process we obtained expressions for the distribution and the moments of the time to the first disappointment and the expected number of disappointments over an arbitrary interval  $0 \leq t$  In chapter 6 the assumption viii is relaxed The reliability availability and the busy period analysis is studied with the assumption of the non instantaneous switchover the time taken from standby state to the operating state is non negligible random variable It is also assumed that the unit has three possible failure modes normal partial and total failure Numerical example illustrated the

results obtained The assumption ix is relaxed in chapter 7 and a two unit cold standby system with the provision of rest for the operating unit is studied Also the failure and repair times of each unit assumed to be correlated by taking their joint density as bivariate exponential The system is observed at suitable regenerative epochs to obtain various reliability characteristics of interest such as the distribution of time to system failure and its mean and the steady state probabilities of the system being in up or down states or under repair Earlier results are verified as particular cases Numerical example illustrated the results obtained

**Interfaces** ,2004 Seeks to improve communication between managers and professionals in OR MS

**Scientific and Technical Aerospace Reports** ,1986

*Stochastic System Reliability Modeling* Shunji Osaki,1985

Probability theory Stochastic processes Markov renewal processes Stochastic models for one unit systems Stochastic models for two unit redundant systems Stochastic models for fault tolerant computing systems Laplace stieltjes transforms Signal flow graphs

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