

# **RANDOM PROCESSES IN NUCLEAR REACTORS**

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# Random Processes In Nuclear Reactors

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## Random Processes In Nuclear Reactors:

Random Processes in Nuclear Reactors M. M. R. Williams, 2013-10-22 Random Processes in Nuclear Reactors describes the problems that a nuclear engineer may meet which involve random fluctuations and sets out in detail how they may be interpreted in terms of various models of the reactor system Chapters set out to discuss topics on the origins of random processes and sources the general technique to zero power problems and bring out the basic effect of fission and fluctuations in the lifetime of neutrons on the measured response the interpretation of power reactor noise and associated problems connected with mechanical hydraulic and thermal noise sources The book will be very useful to nuclear engineers *an analysis of nuclear reactor fluctuations by methods of stochastic processes* phillip r. pluta, 1962 Elements of the Theory of Markov Processes and Their Applications A. T. Bharucha-Reid, 2012-04-26 This graduate level text and reference in probability with numerous applications to several fields of science presents nonmeasure theoretic introduction to theory of Markov processes The work also covers mathematical models based on the theory employed in various applied fields Prerequisites are a knowledge of elementary probability theory mathematical statistics and analysis Appendixes Bibliographies 1960 edition *Library of Congress Subject Headings* Library of Congress, Library of Congress. Office for Subject Cataloging Policy, 2011 **Library of Congress Subject Headings** Library of Congress. Cataloging Policy and Support Office, 2009 *Stable Non-Gaussian Random Processes* Gennady Samoradnitsky, 2017-11-22 This book serves as a standard reference making this area accessible not only to researchers in probability and statistics but also to graduate students and practitioners The book assumes only a first year graduate course in probability Each chapter begins with a brief overview and concludes with a wide range of exercises at varying levels of difficulty The authors supply detailed hints for the more challenging problems and cover many advances made in recent years **Library of Congress Subject Headings** Library of Congress. Office for Subject Cataloging Policy, 1991 **Library of Congress Subject Headings** Library of Congress. Subject Cataloging Division, 1980 **Bibliographies of Interest to the Atomic Energy Program, 1962 Through 1966** U.S. Atomic Energy Commission, 1968 *Scientific and Technical Aerospace Reports*, 1971 **Vibration Acoustics Applied To Vver-1200 Reactor Plant** Gennadiy V Arkadov, Vladimir I Pavelko, Mikhail T Slepov, 2021-05-05 The safe operation of a nuclear power plant depends on the reliability and safety of the reactor plant which in turn requires careful monitoring of the equipment at the manufacturing and operation stages This monograph critically examines the fundamental effects of hydrodynamic and vibration load formation on the modern power unit of the VVER 1200 nuclear power plant which is originally designed in Russia as well as the causes and main sources of vibration in the main circulation loop and their energy contribution Practical examples are used to explain how vibration stress can be reduced and the hydrodynamic status of the circuit improved Current research on the vibroacoustics of some non Russian nuclear reactors is also included *Stochastic Processes Problems and Solutions* L. Takacs, 2012-12-06 It is not so very long ago that up to date

text books on statistics were almost non existent In the last few decades this deficiency has largely been remedied but in order to cope with a broad and rapidly expanding subject many of these books have been fairly big and expensive The success of Methuen s existing series of monographs in physics or in biology for example stresses the value of short inexpensive treatments to which a student can turn for an introduction to or a revision of specialised topics In this new Methuen series the still growing importance of probability theory in its applied aspects has been recognised by coupling together Probability and Statistics and included in the series are some of the newer applications of probability theory to stochastic models in various fields storage and service problems Monte Carlo techniques etc as well as monographs on particular statistical topics

M S BARTLETT ix AUTHOR S PREFACE The theory of stochastic processes has developed in the last three decades Its field of application is constantly expanding and at present it is being applied in nearly every branch of science So far several books have been written on the mathematical theory of stochastic processes The nature of this book is different because it is primarily a collection of problems and their solutions and is intended for readers who are already familiar with probability theory

Random Sums and Branching Stochastic Processes Ibrahim Rahimov,2012-12-06 The aim of this monograph is to show how random sums that is the summation of a random number of dependent random variables may be used to analyse the behaviour of branching stochastic processes The author shows how these techniques may yield insight and new results when applied to a wide range of branching processes In particular processes with reproduction dependent and non stationary immigration may be analysed quite simply from this perspective On the other hand some new characterizations of the branching process without immigration dealing with its genealogical tree can be studied Readers are assumed to have a firm grounding in probability and stochastic processes but otherwise this account is self contained As a result researchers and graduate students tackling problems in this area will find this makes a useful contribution to their work

**Global Neutron Calculations** Mihály Makai,Dániel Péter Kis,János Végh,2015-03-05 Global Neutron Calculations provides assessment guidelines for nuclear reactors in a step by step manner The book introduces readers to principal physical ideas the fundamentals of nuclear reactors including the theory of self sustaining chain reactions and the associated physical and mathematical calculations The required theory the mathematical apparatus and the applied methods are comprehensively explained in the first half of the book followed by details about the applications of the theory and methods Readers will gain essential information about reactor control and surveillance instrumentation and control technology fuel management core design and the differences in reactor technologies Global Neutron Calculations demystifies technical and mathematical knowledge about reactor design operation safety and analysis for engineers learning about one of mankind s most controversial means of power generation

**Stochastic Neutron Transport** Emma Horton,Andreas E. Kyprianou,2023-11-15 This monograph highlights the connection between the theory of neutron transport and the theory of non local branching processes By detailing this frequently overlooked relationship the authors provide readers an entry point

into several active areas particularly applications related to general radiation transport Cutting edge research published in recent years is collected here for convenient reference Organized into two parts the first offers a modern perspective on the relationship between the neutron branching process NBP and the neutron transport equation NTE as well as some of the core results concerning the growth and spread of mass of the NBP The second part generalizes some of the theory put forward in the first offering proofs in a broader context in order to show why NBPs are as malleable as they appear to be Stochastic Neutron Transport will be a valuable resource for probabilists and may also be of interest to numerical analysts and engineers in the field of nuclear research

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