

# Manual Solution Reliability Roy Billinton

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Billinton*

this book has evolved from our deep interest and involvement in the development and application of reliability evaluation techniques its scope is not limited to anyone engineering discipline as the concepts and basic techniques for reliability evaluation have no disciplinary boundaries and are applicable in most if not all engineering applications we firmly believe that reliability evaluation is an important and integral feature of the planning design and operation of all engineering systems from the smallest and most simple to the largest and most complex also we believe that all engineers involved with such systems should be aware of and appreciate not only the benefits which can accrue from reliability assessment but also how such assessments can be made our primary objective has been to compile a book which provides practising engineers and engineering graduates who have little or no background in probability theory or statistics with the concepts and basic techniques for evaluating the reliability of engineering systems it is hoped that the material presented will enable them to reach quickly a level of self confidence which will permit them to assimilate understand and appreciate the more detailed applications and additional material which is available in the journals and publications associated with their own discipline

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we are very pleased to be asked to co author this book for a variety of reasons one of which was that it gave us further opportunity to work together the scope proposed was very wide with the only significant proviso being that the book should be in a monograph style and not a teaching text this requirement has given us the opportunity to compile a wide range of relevant material relating to present day knowledge and application in power system reliability as many readers will be aware we have collaborated in many ways over a relatively long period and have co authored two other books on reliability evaluation both of these previous books were structured as teaching texts this present book is not a discourse on how to do reliability evaluation but a discussion on why it should be done and what can be done and achieved and as such does not replace or conflict with the previous books the three books are complementary and each enhances the others the material contained in this book is not specifically original since it is based on information which we have published in other forms either jointly or as co authors with various other people particularly our many research students we sincerely acknowledge the important contributions made by all these students and colleagues there are too many to mention individually in this preface but their names appear frequently in the references at the end of

each chapter

in response to new developments in the field practical teaching experience and readers suggestions the authors of the warmly received reliability evaluation of engineering systems have updated and extended the work providing extended coverage of fault trees and a more complete examination of probability distribution among other things without disturbing the original s concept structure or style

this book has evolved from our deep interest and involvement in the development and application of reliability evaluation techniques its scope is not limited to anyone engineering discipline as the concepts and basic techniques for reliability evaluation have no disciplinary boundaries and are applicable in most if not all engineering applications we firmly believe that reliability evaluation is an important and integral feature of the planning design and operation of all engineering systems from the smallest and most simple to the largest and most complex also we believe that all engineers involved with such systems should be aware of and appreciate not only the benefits which can accrue from reliability assessment but also how such assessments can be made our primary objective has been to compile a book which provides practising engineers and engineering graduates who have little or no background in probability theory or statistics with the concepts and basic techniques for evaluating the reliability of engineering systems it is hoped that the material presented will enable them to reach quickly a level of self confidence which will permit them to assimilate understand and appreciate the more detailed applications and additional material which is available in the journals and publications associated with their own discipline

the five chapters of this book collect and illustrate techniques that have been applied to the prediction of reliability and availability of the various specific segments of an electric power system the text emphasizes the numerical procedures employed in making these reliability and availability predictions other related criteria that have been put forward in the literature such as adequacy dependability and security are also introduced and defined as needed and as applied in specific contexts the book opens with a discussion of reliability and availability applications to transmission and distribution systems treating independent component outages and their effects on the continuity of supply it then takes up models for generation planning and proceeds to the area of bulk power supply system reliability evaluation offering methods for prediction of composite reliability of the generation and transmission systems a final chapter extends the study into operating reliability assessments concerned with reserve

problems it considers the adequacy of the generating system to meet forecasted loads a short period ahead professor billinton is in the electrical engineering department at the university of saskatchewan drs ringlee and wood are with power technologies inc their book is the sixth in the modern electrical technology series edited by alexander kusko

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