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this book presents the state of the art of reliability engineering both in theory and practice it provides design guidelines for reliability maintainability and software quality this is a textbook establishing a link between theory and practice with a large number of tables figures and examples to support the practical aspects this allows rapid access to practical results the book is based on over 30 years of industrial and academic experience

modern society depends heavily upon a host of systems of varying complexity to perform the services required the importance of reliability assumes new dimensions primarily because of the higher cost of these highly complex machines required by mankind and the implication of their failure this is why all industrial organizations wish to equip their scientists engineers managers and administrators with a knowledge of reliability concepts and applications based on the author s 20 years experience as reliability educator researcher and consultant reliability engineering introduces the reader systematically to reliability evaluation prediction allocation and optimization it also covers further topics such as maintainability and availability software reliability economics of reliability reliability management reliability testing etc a reliability study of some typical systems has been included to introduce the reader to the practical aspects the book is intended for graduate students of engineering schools and also professional engineers managers and reliability administrators as it has a wide coverage of reliability concepts

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