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this book provides extensive information about advanced control techniques in electric drives multiple control and estimation methods are studied for position and speed tracking in different drives artificial intelligence tools such as fuzzy logic and neural networks are used for specific applications using electric drives this book presents selected articles from india smart utility week isuw 2019 which is the fifth edition of the conference cum exhibition on smart grids and smart cities organized by india smart grid forum from 12-16 march 2019 at manekshaw centre new delhi india isgf is a public private partnership initiative of the ministry of power govt of india with the mandate of accelerating smart grid deployments across the country this book gives current scenario updates of indian power sector business it also highlights various disruptive technologies for power sector business cyber physical systems play a crucial role in connecting aspects of online life to physical life by studying emerging trends in these systems programming techniques can be optimized and strengthened to create a higher level of effectiveness solutions for cyber physical systems ubiquity is a critical reference source that discusses the issues and challenges facing the implementation usage and challenges of cyber physical systems highlighting relevant topics such as the internet of things smart card security multi core environments and wireless sensor nodes this scholarly publication is ideal for engineers academicians computer science students and researchers that would like to stay abreast of current methodologies and trends involving cyber physical system progression

misra c this book discusses the new roles that the vlsi very large scale integration of semiconductor circuits is taking for the safe secure and dependable design and operation of electronic systems the book consists of three parts part i as a general introduction to this vital topic describes how electronic systems are designed and tested with particular emphasis on dependability engineering where the simultaneous assessment of the detrimental outcome of failures and cost of their containment is made this section also describes the related research project dependable vlsi systems in which the editor and authors of the book were involved for 8 years part ii addresses various threats to the dependability of vlsis as key systems components including time dependent degradations variations in device characteristics ionizing radiation electromagnetic interference design errors and tampering with discussion of technologies to counter those threats part iii elaborates on the design and test technologies for dependability in such applications as control of robots and vehicles data processing and storage in a cloud environment and heterogeneous wireless telecommunications this book is intended to be used as a reference for engineers who work on the design and testing of vlsi systems with particular attention to dependability it can be used as a textbook in graduate courses as well readers interested in dependable systems from social and industrial economic perspectives will also benefit from the discussions in this book

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