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Dr. Robert F. Mills ,Dr. Juan Lopez Jr



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Digital Microfluidic Biochips Krishnendu Chakrabarty, Fei Su, 2018-10-03 Digital Microfluidic Biochips focuses on the automated design and production of microfluidic based biochips for large scale bioassays and safety critical applications Bridging areas of electronic design automation with microfluidic biochip research the authors present a system level design automation framework that addresses key issues in the design analysis and testing of digital microfluidic biochips The book describes a new generation of microfluidic biochips with more complex designs that offer dynamic reconfigurability system scalability

system integration and defect tolerance Part I describes a unified design methodology that targets design optimization under resource constraints Part II investigates cost effective testing techniques for digital microfluidic biochips that include test resource optimization and fault detection while running normal bioassays Part III focuses on different reconfiguration based defect tolerance techniques designed to increase the yield and dependability of digital microfluidic biochips Expanding upon results from ongoing research on CAD for biochips at Duke University this book presents new design methodologies that address some of the limitations in current full custom design techniques Digital Microfluidic Biochips is an essential resource for achieving the integration of microfluidic components in the next generation of system on chip and system in package designs

Evolutionary Robotics Stefano Nolfi,Dario Floreano,2000 An overview of the basic concepts and methodologies of evolutionary robotics which views robots as autonomous artificial organisms that develop their own skills in close interaction with the environment and without human intervention

Handbook of Integrated Circuit Industry Yangyuan Wang,Min-Hwa Chi,Jesse Jen-Chung Lou,Chun-Zhang Chen,2023-11-27 Written by hundreds experts who have made contributions to both enterprise and academics research these excellent reference books provide all necessary knowledge of the whole industrial chain of integrated circuits and cover topics related to the technology evolution trends fabrication applications new materials equipment economy investment and industrial developments of integrated circuits Especially the coverage is broad in scope and deep enough for all kind of readers being interested in integrated circuit industry Remarkable data collection update marketing evaluation enough working knowledge of integrated circuit fabrication clear and accessible category of integrated circuit products and good equipment insight explanation etc can make general readers build up a clear overview about the whole integrated circuit industry This encyclopedia is designed as a reference book for scientists and engineers actively involved in integrated circuit research and development field In addition this book provides enough guide lines and knowledges to benefit enterprisers being interested in integrated circuit industry

Computers Larry E. Long,Nancy Long,2002 This work is an introductory course in computers and information technology or in computer competency often offered in Business CIS or Computer Science Designed to aid the competency needs of students this text supplements package provides an overview of computing concepts and IT applications all in a format that allows instructors the flexibility to meet their course s education objectives It aims to strike a balance between efficiency of presentation and content that holds the student s interest and invites learning Only topics critical to general information technology competency are covered in order to provide the breadth of topics necessary to the understanding that is applicable today and in the future The text includes an extended presentation of ethics in IT and explores IT laboratories

Real-Time Modelling and Processing for Communication Systems Muhammad Alam,Wael Dghais,Yuanfang Chen,2017-12-27 This book presents cutting edge work on real time modelling and processing a highly active research field in both the research and industrial domains Going beyond conventional real time systems major efforts are required to develop accurate and computational efficient real

time modelling algorithms and design automation tools that reflect the technological advances in high speed and ultra low power transceiver communication architectures based on nanoscale devices The book addresses basic and more advanced topics such as I O buffer circuits for ensuring reliable chip to chip communication I O buffer behavioural modelling multiport empirical models for memory interfaces compact behavioural modelling for memristive devices and resource reservation modelling for distributed embedded systems The respective chapters detail new research findings new models algorithms implementations and simulations of the above mentioned topics As such the book will help both graduate students and researchers understand the latest research into real time modelling and processing **Carbon Nanotubes for**

Interconnects Aida Todri-Sanial, Jean Dijon, Antonio Maffucci, 2016-07-09 This book provides a single source reference on the use of carbon nanotubes CNTs as interconnect material for horizontal on chip and 3D interconnects The authors demonstrate the uses of bundles of CNTs as innovative conducting material to fabricate interconnect through silicon vias TSVs in order to improve the performance reliability and integration of 3D integrated circuits ICs This book will be first to provide a coherent overview of exploiting carbon nanotubes for 3D interconnects covering aspects from processing modeling simulation characterization and applications Coverage also includes a thorough presentation of the application of CNTs as horizontal on chip interconnects which can potentially revolutionize the nanoelectronics industry This book is a must read for anyone interested in the state of the art on exploiting carbon nanotubes for interconnects for both 2D and 3D integrated circuits *ICMLG 2017 5th International Conference on Management Leadership and Governance* Dr Thabang

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