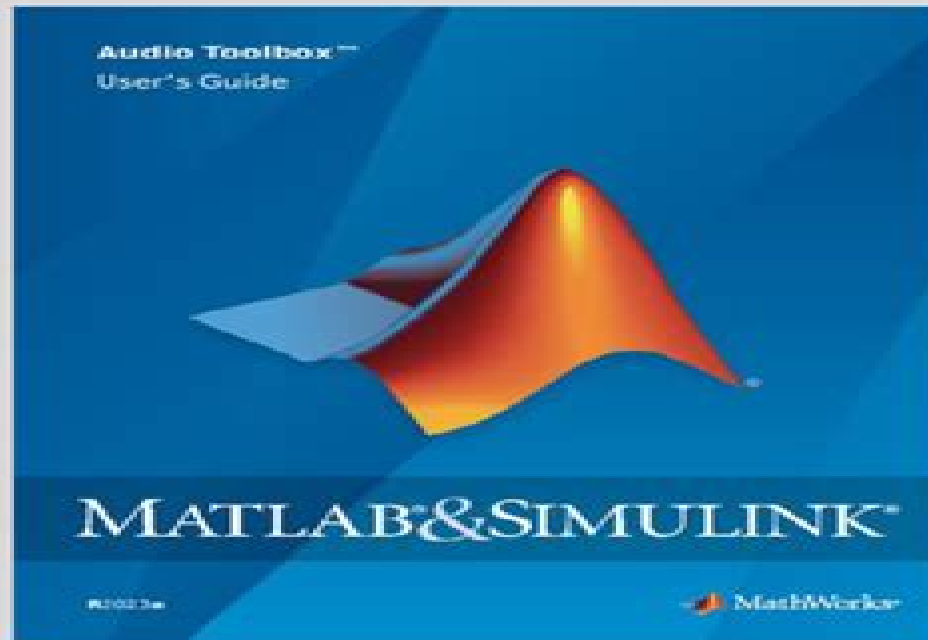
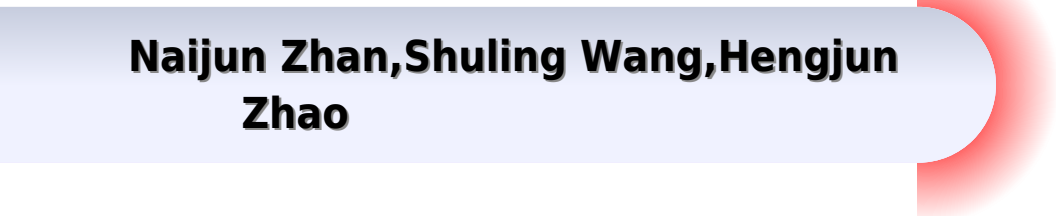


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**Naijun Zhan, Shuling Wang, Hengjun
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GPU Programming in MATLAB Nikolaos Ploskas, Nikolaos Samaras, 2016-08-25 GPU programming in MATLAB is intended for scientists engineers or students who develop or maintain applications in MATLAB and would like to accelerate their codes using GPU programming without losing the many benefits of MATLAB The book starts with coverage of the Parallel Computing Toolbox and other MATLAB toolboxes for GPU computing which allow applications to be ported straightforwardly onto GPUs without extensive knowledge of GPU programming The next part covers built in GPU enabled features of MATLAB including options to leverage GPUs across multicore or different computer systems Finally advanced material includes CUDA code in MATLAB and optimizing existing GPU applications Throughout the book examples and source codes illustrate every concept so that readers can immediately apply them to their own development Provides in depth comprehensive coverage of GPUs with MATLAB including the parallel computing toolbox and built in features for other MATLAB toolboxes Explains how to accelerate computationally heavy applications in MATLAB without the need to re write them in another language Presents case studies illustrating key concepts across multiple fields Includes source code sample datasets and lecture slides

Distributed Simulation Okan Topçu, Umut Durak, Halit Oğuztüzün, Levent Yilmaz, 2016-01-27 This unique text reference provides a comprehensive review of distributed simulation DS from the perspective of Model Driven Engineering MDE illustrating how MDE affects the overall lifecycle of the simulation development process Numerous practical case studies are included to demonstrate the utility and applicability of the methodology many of which are developed from tools available to download from the public domain Topics and features Provides a thorough introduction to the fundamental concepts principles and processes of modeling and simulation MDE and high level architecture Describes a road map for building a DS system in accordance with the MDE perspective and a technical framework for the development of conceptual models Presents a focus on federate simulation environment architectures detailing a practical approach to the design of federations i e simulation member design Discusses the main activities related to scenario management in DS and explores the process of MDE based implementation integration and testing Reviews approaches to simulation evolution and modernization including architecture driven modernization for simulation modernization Examines the potential synergies between the agent DS and MDE methodologies suggesting avenues for future research at the intersection of these three fields Distributed Simulation A Model Driven Engineering Approach is an important resource for all researchers and practitioners involved in modeling and simulation and software engineering who may be interested in adopting MDE principles when developing complex DS systems

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book also provides a guideline for practical implementation of EWMA filter for improving networked control performance of various process plants It further discusses not only the advantages of the filter but also the limitations and how to avoid them when implementing the filter from practical point of view *Provably Correct Systems* Mike Hinchey,Jonathan P.

Bowen,Ernst-Rüdiger Olderog,2017-03-01 As computers increasingly control the systems and services we depend upon within our daily lives like transport communications and the media ensuring these systems function correctly is of utmost importance This book consists of twelve chapters and one historical account that were presented at a workshop in London in 2015 marking the 25th anniversary of the European ESPRIT Basic Research project ProCoS Provably Correct Systems The ProCoS I and II projects pioneered and accelerated the automation of verification techniques resulting in a wide range of applications within many trades and sectors such as aerospace electronics communications and retail The following topics are covered An historical account of the ProCoS project Hybrid Systems Correctness of Concurrent Algorithms Interfaces and Linking Automatic Verification Run time Assertions Checking Formal and Semi Formal Methods Provably Correct Systems provides researchers designers and engineers with a complete overview of the ProCoS initiative past and present and explores current developments and perspectives within the field **VLSI Design and Test** Brajesh Kumar

Kaushik,Sudeb Dasgupta,Virendra Singh,2017-12-21 This book constitutes the refereed proceedings of the 21st International Symposium on VLSI Design and Test VDAT 2017 held in Roorkee India in June July 2017 The 48 full papers presented together with 27 short papers were carefully reviewed and selected from 246 submissions The papers were organized in topical sections named digital design analog mixed signal VLSI testing devices and technology VLSI architectures emerging technologies and memory system design low power design and test RF circuits architecture and CAD and design verification

ICT Based Innovations A. K. Saini,A. K. Nayak,Ram Krishna Vyas,2017-09-30 This volume comprises the select proceedings of the annual convention of the Computer Society of India Divided into 10 topical volumes the proceedings present papers on state of the art research surveys and succinct reviews The volumes cover diverse topics ranging from communications networks to big data analytics and from system architecture to cyber security This volume focuses on ICT Based Innovations The contents of this book will be useful to researchers and students alike

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