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数字图像处理 (MATLAB版)(第二版)

Digital Image Processing Using MATLAB
Second Edition



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Digital Image Processing Using Matlab Second Edition chinese Edition

**Douglas M. Marshall, Richard K.
Barnhart, Eric Shappee, Michael
Thomas Most**



Digital Image Processing Using Matlab Second Editionchinese Edition:

System Simulation Techniques with MATLAB and Simulink Dingyǎ Xue,Yang Chen,2013-09-16 System Simulation Techniques with MATLAB and Simulink comprehensively explains how to use MATLAB and Simulink to perform dynamic systems simulation tasks for engineering and non engineering applications This book begins with covering the fundamentals of MATLAB programming and applications and the solutions to different mathematical problems in simulation The fundamentals of Simulink modelling and simulation are then presented followed by coverage of intermediate level modelling skills and more advanced techniques in Simulink modelling and applications Finally the modelling and simulation of engineering and non engineering systems are presented The areas covered include electrical electronic systems mechanical systems pharmacokinetic systems video and image processing systems and discrete event systems Hardware in the loop simulation and real time application are also discussed Key features Progressive building of simulation skills using Simulink from basics through to advanced levels with illustrations and examples Wide coverage of simulation topics of applications from engineering to non engineering systems Dedicated chapter on hardware in the loop simulation and real time control End of chapter exercises A companion website hosting a solution manual and powerpoint slides System Simulation Techniques with MATLAB and Simulink is a suitable textbook for senior undergraduate postgraduate courses covering modelling and simulation and is also an ideal reference for researchers and practitioners in industry

Digital Image Processing and Analysis Scott E Umbaugh,2017-11-30 Digital image processing and analysis is a field that continues to experience rapid growth with applications in many facets of our lives Areas such as medicine agriculture manufacturing transportation communication systems and space exploration are just a few of the application areas This book takes an engineering approach to image processing and analysis including more examples and images throughout the text than the previous edition It provides more material for illustrating the concepts along with new PowerPoint slides The application development has been expanded and updated and the related chapter provides step by step tutorial examples for this type of development The new edition also includes supplementary exercises as well as MATLAB based exercises to aid both the reader and student in development of their skills

Engineering Optics With Matlab® (Second Edition) Ting-chung Poon,Taegeun Kim,2017-10-10 This invaluable second edition provides more in depth discussions and examples in various chapters Based largely on the authors own in class lectures as well as research in the area the comprehensive textbook serves two purposes The first introduces some traditional topics such as matrix formalism of geometrical optics wave propagation and diffraction and some fundamental background on Fourier optics The second presents the essentials of acousto optics and electro optics and provides the students with experience in modeling the theory and applications using a commonly used software tool MATLAB

Introduction to Unmanned Aircraft Systems, Second Edition Douglas M. Marshall,Richard K. Barnhart,Eric Shappee,Michael Thomas Most,2015-10-26 The proliferation of technological capability

miniaturization and demand for aerial intelligence is pushing unmanned aerial systems UAS into the realm of a multi billion dollar industry This book surveys the UAS landscape from history to future applications It discusses commercial applications integration into the national airspace system NAS System function operational procedures safety concerns and a host of other relevant topics The book is dynamic and well illustrated with separate sections for terminology and web based resources for further information Linear Algebra and Matrix Computations with MATLAB® Dingyü Xue,2020-03-23 This

book focuses the solutions of linear algebra and matrix analysis problems with the exclusive use of MATLAB The topics include representations fundamental analysis transformations of matrices matrix equation solutions as well as matrix functions Attempts on matrix and linear algebra applications are also explored **Image Processing and Pattern Recognition Based on Parallel Shift Technology** Stepan Bilan,Sergey Yuzhakov,2018-01-29 This book describes the methods and algorithms for image pre processing and recognition These methods are based on a parallel shift technology of the imaging copy as well as simple mathematical operations to allow the generation of a minimum set of features to describe and recognize the image This book also describes the theoretical foundations of parallel shift technology and pattern recognition Based on these methods and theories this book is intended to help researchers with artificial intelligence systems design robotics and developing software and hardware applications *5th International Symposium of Space Optical*

Instruments and Applications H. Paul Urbach,Qifeng Yu,2020-01-30 This book gathers selected and expanded contributions presented at the 5th Symposium on Space Optical Instruments and Applications which was held in Beijing China on September 5 7 2018 This conference series is organized by the Sino Holland Space Optical Instruments Laboratory a cooperative platform between China and the Netherlands The symposium focused on key technological problems regarding optical instruments and their applications in a space context It covered the latest developments experiments and results on the theory instrumentation and applications of space optics The book is split into five main sections The first covers optical remote sensing system design the second focuses on advanced optical system design and the third addresses remote sensor calibration and measurement Remote sensing data processing and information extraction are then presented followed by a final section on remote sensing data applications **Wavelet Analysis And Active Media Technology (In 3 Volumes) -**

Proceedings Of The 6th International Progress Stephane Jaffard,Ching Yee Suen,John Daugman,Victor Wickerhauser,Bruno Torresani,John Yen,Ning Zhong,Sankar Kumar Pal,2005-07-06 Wavelet analysis and its applications have been one of the fastest growing research areas in the past several years Wavelet theory has been employed in numerous fields and applications such as signal and image processing communication systems biomedical imaging radar air acoustics and many other areas Active media technology is concerned with the development of autonomous computational or physical entities capable of perceiving reasoning adapting learning cooperating and delegating in a dynamic environment This book captures the essence of the current state of the art in wavelet analysis and active media technology It includes nine invited

papers by distinguished researchers P Zhang T D Bui and C Y Suen from Concordia University Canada N A Strelkov and V L Dol nikov from Yaroslavl State University Russia Chin Chen Chang and Ching Yun Chang from Taiwan S S Pandey from R D University India and I L Bloshanskii from Moscow State Regional University Russia The proceedings have been selected for coverage in *Proceedings of the 2012 International Conference on Communication, Electronics and Automation Engineering* George Yang, 2012-08-14 This book is a collection of selected papers from the 2011 International Conference on Communications Electronics and Automation Engineering held in Xi an China August 23 25 2012 It presents some of the latest research findings in a broad range of interdisciplinary fields related to communications electronics and automation engineering Specific emphasis is placed on the following topics automation control data mining and statistics simulation and mathematical modeling human factors and cognitive engineering web technology optimization and algorithm and network communications The prime objective of the book is to familiarize the readers with cutting edge developments in the research of electronics and automation engineering with a variety of applications Hopefully the book can help researchers to identify research trends in many areas to learn the new methods and tools and to spark innovative ideas Smart Agriculture Amol Dattatray Dhaygude, Suman Kumar Swarnkar, Priya Chugh, Yogesh Kumar Rathore, 2024-12-18 This book Smart Agriculture Harnessing Machine Learning for Crop Management is a comprehensive guide designed to explore the various facets of integrating machine learning into agricultural practices It aims to provide readers with a solid foundation in machine learning concepts while demonstrating their practical applications in real world farming scenarios It also examines the role of remote monitoring and precision agriculture highlighting how technologies such as remote sensing and recurrent neural networks can optimize farming practices This book Emphasizes sustainable agricultural practices and data driven decision making for eco friendly farming Highlights the importance of using environmentally friendly practices and how machine learning can play a pivotal role in achieving sustainability goals Discusses topics such as crop optimization disease detection pest control resource management precision agriculture and sustainability Covers predictive analytics for weather forecasting Internet of Things applications for precision agriculture and the role of sensors in data collection Illustrates optimizing resource allocation irrigation with artificial intelligence and machine learning for soil health assessment Whether you are a researcher a student an agricultural professional or a technology enthusiast this book offers valuable insights into the transformative power of machine learning in agriculture It invites readers to explore the potential of machine learning to transform farming practices improve food security and promote environmental sustainability

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