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this primer provides an accessible introduction to matlab version 8 and its extensive functionality for statistics fulfilling the need for a practical user s guide the book covers capabilities in the main matlab package the statistics toolbox and the student version of matlab presenting examples of how matlab can be used to analyze data it explains how to determine what method should be used for analysis and includes figures visual aids and access to a companion website with data sets and additional examples

advanced numpy techniques a comprehensive guide to data analysis and computation begins with a profound exploration of numpy s core the powerful and efficient ndarray data structure which serves as the foundation for python s data science ecosystem the book covers universal functions for element wise operations broadcasting semantics for operations on differently shaped arrays and linear algebra computations within numpy these principles will enable you to handle numerical problems with efficacy the guide also delves into random number generation and sampling techniques for simulations and probabilistic analysis and explores numpy s file i o functionality for effective data management throughout clear explanations are accompanied by insightful tips and best practices practical examples clarify concepts while common pitfalls are outlined to smooth your learning journey this comprehensive guide equips you with the knowledge to perform advanced computations and craft algorithms with numpy catering to both novices eager to learn and experienced analysts seeking to sharpen their skills

computer vision and image analysis focuses on techniques and methods for image analysis and their use in the development of computer vision applications the field is advancing at an ever increasing pace with applications ranging from medical diagnostics to space exploration the diversity of applications is one of the driving forces that make it such an exciting field to be involved in for the 21st century this book presents a unique engineering approach to the practice of computer vision and image analysis which starts by presenting a global model to help gain an understanding of the overall process followed by a breakdown and explanation of each individual topic topics are presented as they become necessary for understanding the practical imaging model under study which

provides the reader with the motivation to learn about and use the tools and methods being explored the book includes chapters on image systems and software image analysis edge line and shape detection image segmentation feature extraction and pattern classification numerous examples including over 500 color images are used to illustrate the concepts discussed readers can explore their own application development with any programming languages including c c matlab python and r and software is provided for both the windows c c and matlab environments the book can be used by the academic community in teaching and research with over 700 powerpoint slides and a complete solutions manual to the over 150 included problems it can also be used for self study by those involved with developing computer vision applications whether they are engineers scientists or artists the new edition has been extensively updated and includes numerous problems and programming exercises that will help the reader and student to develop their skills

written to inspire and cultivate the ability to design and analyse feasible control algorithms for a wide range of engineering applications this comprehensive text covers the theoretical and practical principles involved in the design and analysis of control systems this second edition introduces 4ir adoption strategies for traditional intelligent control including new techniques of implementing control systems it provides improved coverage of the characteristics of feedback control root locus analysis frequency response analysis state space methods digital control systems and advanced controls including updated worked examples and problems features describes very timely applications and contains a good mix of theory application and computer simulation covers all the fundamentals of control systems takes a transdisciplinary and cross disciplinary approach explores updates for 4ir industry 4 0 and includes better experiments and illustrations for nonlinear control systems includes homework problems case studies examples and a solutions manual this book is aimed at senior undergraduate and graduate students professional engineers and academic researchers in interrelated engineering disciplines such as electrical mechanical aerospace mechatronics robotics and other ai based systems

leverage the power of matlab 6 in all your technical computation and measurement applications now there is a complete introduction to numerical methods and visualization with the latest most powerful version of matlab version 6 0 dr shoichiro nakamura introduces the skills and knowledge needed to solve numerical equations with matlab understand the computational results and present them graphically this book brings together all four cornerstones of numerical analysis with matlab the fundamental

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