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Multirate Filtering for Digital Signal Processing: MATLAB Applications Milic, Ljiljana 2009-01-31 "This book covers basic and the advanced approaches in the design and implementation of multirate filtering"--Provided by publisher.

Introduction to Digital Signal Processing Using MATLAB with Application to Digital Communications K.S. Thyagarajan 2018-05-28 This textbook provides engineering students with instruction on processing signals encountered in speech, music, and wireless communications using software or hardware by employing basic mathematical methods. The book starts with an overview of signal processing, introducing readers to the field. It goes on to give instruction in converting continuous time signals into digital signals and discusses various methods to process the digital signals, such as filtering. The author uses MATLAB throughout as a user-friendly software tool to perform various digital signal processing algorithms and to simulate real-time systems. Readers learn how to convert analog signals into digital signals; how to process these signals using software or hardware; and how to write algorithms to perform useful operations on the acquired signals such as filtering, detecting digitally modulated signals, correcting channel distortions, etc. Students are also shown how to convert MATLAB codes into firmware codes. Further, students will be able to apply the basic digital signal processing techniques in their workplace. The book is based on the author's popular online course at University of California, San Diego.

Digital Signal Processing and Applications with the TMS320C6713 and TMS320C6416 DSK Rulph Chassaing 2011-09-20 Digital Signal Processing and Applications with the TMS320C6713 and TMS320C6416 DSK Now in a new edition—the most comprehensive, hands-on introduction to digital signal processing The first edition of Digital Signal Processing and Applications with the TMS320C6713 and TMS320C6416 DSK is widely accepted as the most extensive text available on the hands-on teaching of Digital Signal Processing (DSP). Now, it has been fully updated in this valuable Second Edition to be compatible with the latest version (3.1) of Texas Instruments Code Composer Studio (CCS) development environment. Maintaining the original's comprehensive, hands-on approach that has made it an instructor's favorite, this new edition also features: Added program examples that illustrate DSP concepts in real-time and in the laboratory Expanded coverage of analog input and output New material on frame-based processing A revised chapter on IIR, which includes a number of floating-point example programs that explore IIR filters more comprehensively More extensive coverage of DSP/BIOS All programs listed in the text—plus additional applications—which are available on a companion website No other book provides such an extensive or comprehensive set of program examples to aid instructors in teaching DSP in a laboratory using audio frequency signals—making this an ideal text for DSP courses at the senior undergraduate and postgraduate levels. It also serves as a valuable resource for researchers, DSP developers, business managers, and technology solution providers who are looking for an overview and examples of DSP algorithms implemented using the TMS320C6713 and TMS320C6416 DSK.

Introduction to Digital Signal Processing Roman Kuc 1988

Practical Digital Signal Processing Edmund Lai 2003-10-21 The aim of this book is to introduce the general area of Digital Signal Processing from a practical point of view with a working minimum of mathematics. The emphasis is placed on the practical applications of DSP: implementation issues, tricks and pitfalls. Intuitive explanations and appropriate examples are used to develop a fundamental understanding of DSP theory, laying a firm foundation for the reader to pursue the matter further. The reader will develop a clear understanding of DSP technology in a variety of fields from process control to communications. * Covers the use of DSP in different engineering sectors, from communications to process control * Ideal for a wide audience wanting to take advantage of the strong movement towards digital signal processing techniques in the engineering world * Includes numerous practical exercises and diagrams covering many of the fundamental aspects of digital signal processing

The Female Brain Louann Brizendine, M.D. 2007-08-07 Since Dr. Brizendine wrote *The Female Brain* ten years ago, the response has been overwhelming. This New York Times bestseller has been translated into more than thirty languages, has sold nearly a million copies between editions, and has most recently inspired a romantic comedy starring Whitney Cummings and Sofia Vergara. And its profound scientific understanding of the nature and experience of the female brain continues to guide women as they pass through life stages, to help men better understand the girls and women in their lives, and to illuminate the delicate emotional machinery of a love relationship. Why are women more verbal than men? Why do women remember details of fights that men can't remember at all? Why do women tend to form deeper bonds with their female friends than men do with their male counterparts? These and other questions have stumped both sexes throughout the ages. Now, pioneering neuropsychiatrist Louann Brizendine, M.D., brings together the latest findings to show how the unique structure of the female brain determines how women think, what they value, how they communicate, and who they love. While doing research as a medical student at Yale and then as a resident and faculty member at Harvard, Louann Brizendine discovered that almost all of the clinical data in existence on neurology, psychology, and neurobiology focused exclusively on males. In response to the overwhelming need for information on the female mind, Brizendine established the first clinic in the country to study and treat women's brain function. In *The Female Brain*, Dr. Brizendine distills all her findings and the latest information from the scientific community in a highly accessible book that educates women about their unique brain/body/behavior. The result: women will come away from this book knowing that they have a lean, mean, communicating machine. Men will develop a serious case of brain envy.

Digital Signal Processing with Field Programmable Gate Arrays Uwe Meyer-Baese 2013-03-09 Starts with an overview of today's FPGA technology, devices, and tools for designing state-of-the-art DSP systems. A case study in the first chapter is the basis for more than 30 design examples throughout. The following chapters deal with computer arithmetic concepts, theory and the implementation of FIR and IIR filters, multirate digital signal processing systems, DFT and FFT algorithms, and advanced algorithms with high future potential. Each chapter contains exercises. The VERILOG source code and a glossary are given in the appendices, while the accompanying CD-ROM contains the examples in VHDL and Verilog code as well as the newest Altera "Baseline" software. This edition has a new chapter on adaptive filters, new sections on division and floating point arithmetics, an up-date to the current Altera software, and some new exercises.

Introduction to Digital Signal Processing and Filter Design B. A. Shenoit 2005-11-07 A practical and accessible guide to understanding digital signal processing Introduction to Digital Signal Processing and Filter Design was developed and fine-tuned from the author's twenty-five years of experience teaching classes in digital signal processing. Following a step-by-step approach, students and professionals quickly master the fundamental concepts and applications of discrete-time signals and systems as well as the synthesis of these systems to meet specifications in the time and frequency domains. Striking the right balance between mathematical derivations and theory, the book features: * Discrete-time signals and systems * Linear difference equations * Solutions by recursive algorithms * Convolution * Time and frequency domain analysis * Discrete Fourier series * Design of FIR and IIR filters * Practical methods for hardware implementation A unique feature of this book is a complete chapter on the use of a MATLAB(r) tool, known as the FDA (Filter Design and Analysis) tool, to investigate the effect of finite word length and different formats of quantization, different realization structures, and different methods for filter design. This chapter contains material of practical importance that is not found in many books used in academic courses. It introduces students in digital signal processing to what they need to know to design digital systems using DSP chips currently available from industry. With its unique, classroom-tested approach, Introduction to Digital Signal Processing and Filter Design is the ideal text for students in electrical and electronic engineering, computer science, and applied mathematics, and an accessible introduction or refresher for engineers and scientists in the field.

Practical Optimization Andreas Antoniou 2007-03-12 Practical Optimization: Algorithms and Engineering Applications is a hands-on treatment of the subject of optimization. A comprehensive set of problems and exercises makes the book suitable for use in one or two semesters of a first-year graduate course or an advanced undergraduate course. Each half of the book contains a full semester's worth of complementary yet stand-alone material. The practical orientation of the topics chosen and a wealth of useful examples also make the book suitable for practitioners in the field.

Simulation of Communication Systems Michel C. Jeruchim 2006-04-11 Since the first edition of this book was published seven years ago, the field of modeling

and simulation of communication systems has grown and matured in many ways, and the use of simulation as a day-to-day tool is now even more common practice. With the current interest in digital mobile communications, a primary area of application of modeling and simulation is now in wireless systems of a different flavor from the 'traditional' ones. This second edition represents a substantial revision of the first, partly to accommodate the new applications that have arisen. New chapters include material on modeling and simulation of nonlinear systems, with a complementary section on related measurement techniques, channel modeling and three new case studies; a consolidated set of problems is provided at the end of the book.

No Safe Words Laura Antoniou 2013-02 Ten stories of BDSM, submission, and service set in the secret world of Laura Antoniou's Marketplace. The Marketplace has fans all over the world, and Antoniou invited them to come play in her fictional sandbox/dungeon. Numbered among those fans happen to be some of the top erotica and alternative sexuality writers in the world, including D.L. King, Sassafras Lowrey, and Elizabeth Schechter. The full slate of writers contributing to NO SAFE WORDS runs the gamut of award-winning authors to bright-eyed new voices, as creator Laura Antoniou explains in her introduction: "As the saying goes, 'blessed are those who embellish the tale.' So here is the Marketplace, as seen through other eyes. There are some stories that show the world exactly as I created it, and some that push my boundaries a tad. There is romance and strife, glee and despair. There is hot sex, of course, but there's also humor and melodrama. Just the way I like it. "There were some surprises for me! I was delighted to find several female dominant/male submissive stories, especially since my examples of those relationships tend to be supporting, rather than main characters. I was also pleased by the writers who weren't afraid to go a little dark; a collection of stories all about slaves misbehaving in mildly inconvenient ways and getting fantastically, erotically punished would have been tiresome. "So whether you want a rollicking Victorian flavored tale of adventure and romance or a modern, sexy welcome to a new home for a familiar character, you will find flavors here to tempt or satisfy your tastes. Return for more time travel to a world where the language we so casually use to describe our tastes doesn't even exist, but where longing for a ritualized order and discipline and a sense of belonging transcends words, and gets expressed in the rich metaphor-and reality-of a garden. "Then swerve away from romance to feel the terror of a slave newly sold to an owner who represents their worst nightmare, whether because of demographics or the enormous challenge of a language barrier. "Here, you can get into the reflection of a trainer's long career or the grief and anguish of a new owner confronted with an inherited house full of property she didn't choose. Or, watch how even the jaded, experienced ways of the Marketplace aware people become awkward in that most awkward of adult challenges-a marriage proposal. Get a glimpse into the rarefied and formal household of an owner/spotter, and then take a detour to the desolate history of a young genderqueer punk fresh from the streets, confronted with the most iconic of Marketplace characters. All of this-a synthesis of my imagination and theirs, fed by culture, fantasy, fairy tales and fears. All fiction is, in a way, fan fiction. I am sorry it took so long for me to see this and to open myself to the interesting sensations-you might call it edge-play-in giving people access to my favorite victims. But better late than never!" Full table of contents: A Thousand Things Before Breakfast by Marie Casey Stevens The First by D. Alexandria If You Try Sometime by D. L. King Her Owner's Voice by Leigh Ann Hildebrand Hiding in Plain Sex by Sassafras Lowrey Delirious Moonlight, 1916: Mr. Sloan's Boy by Anna Watson Pearls in the Deep Blue Sea by Jamie Thorsen Coals for the New Castle by Marie Casey Stevens Getting Real by S.M. Li O, Promise Me! by Elizabeth Schechter

Books in Print 1981

The Theory of Linear Prediction P. P. Vaidyanathan 2008 Linear prediction theory has had a profound impact in the field of digital signal processing. Although the theory dates back to the early 1940s, its influence can still be seen in applications today. The theory is based on very elegant mathematics and leads to many beautiful insights into statistical signal processing. Although prediction is only a part of the more general topics of linear estimation, filtering, and smoothing, this book focuses on linear prediction. This has enabled detailed discussion of a number of issues that are normally not found in texts. For example, the theory of vector linear prediction is explained in considerable detail and so is the theory of line spectral processes. This focus and its small size make the book different from many excellent texts which cover the topic, including a few that are actually dedicated to linear prediction. There are several examples and computer-based demonstrations of the theory. Applications are mentioned wherever appropriate, but the focus is not on the detailed development of these applications. The writing style is meant to be suitable for self-study as well as for classroom use at the senior and first-year graduate levels. The text is self-contained for readers with introductory exposure to signal processing, random processes, and the theory of matrices, and a historical perspective and detailed outline are given in the first chapter. Table of Contents: Introduction / The Optimal Linear Prediction Problem / Levinson's Recursion / Lattice Structures for Linear Prediction / Autoregressive Modeling / Prediction Error Bound and Spectral Flatness / Line Spectral Processes / Linear Prediction Theory for Vector Processes / Appendix A: Linear Estimation of Random Variables / B: Proof of a Property of Autocorrelations / C: Stability of the Inverse Filter / Recursion Satisfied by AR Autocorrelations

Modern Analog Filter Analysis and Design R. Raut 2011-09-22 Starting from the fundamentals, the present book describes methods of designing analog electronic filters and illustrates these methods by providing numerical and circuit simulation programs. The subject matters comprise many concepts and techniques that are not available in other text books on the market. To name a few - principle of transposition and its application in directly realizing current mode filters from well known voltage mode filters; an insight into the technological aspect of integrated circuit components used to implement an integrated circuit filter; a careful blending of basic theory, numerical verification (using MATLAB) and illustration of the actual circuit behaviour using circuit simulation program (SPICE); illustration of few design cases using CMOS and BiCMOS technological processes.

Digital Filters Andreas Antoniou 1993 This final year/postgraduate text for courses in digital filters or digital signal processing deals with the construction of algorithms that filter data into useful information. It starts with the basics and goes on to cover advanced topics such as recursive and non-recursive filters (including optimization techniques), wave digital filters and DFTs. A new chapter on the application of digital signal processing offers up-to-date techniques and there are new problems and examples throughout. A solutions manual is available (0-07-002122-8).

The British National Bibliography Arthur James Wells 1979

Digital Signal Processing Lizhe Tan 2013-01-21 Digital Signal Processing, Second Edition enables electrical engineers and technicians in the fields of biomedical, computer, and electronics engineering to master the essential fundamentals of DSP principles and practice. Many instructive worked examples are used to illustrate the material, and the use of mathematics is minimized for easier grasp of concepts. As such, this title is also useful to undergraduates in electrical engineering, and as a reference for science students and practicing engineers. The book goes beyond DSP theory, to show implementation of algorithms in hardware and software. Additional topics covered include adaptive filtering with noise reduction and echo cancellations, speech compression, signal sampling, digital filter realizations, filter design, multimedia applications, over-sampling, etc. More advanced topics are also covered, such as adaptive filters, speech compression such as PCM, u-law, ADPCM, and multi-rate DSP and over-sampling ADC. New to this edition: MATLAB projects dealing with practical applications added throughout the book New chapter (chapter 13) covering sub-band coding and wavelet transforms, methods that have become popular in the DSP field New applications included in many chapters, including applications of DFT to seismic signals, electrocardiography data, and vibration signals All real-time C programs revised for the TMS320C6713 DSK Covers DSP principles with emphasis on communications and control applications Chapter objectives, worked examples, and end-of-chapter exercises aid the reader in grasping key concepts and solving related problems Website with MATLAB programs for simulation and C programs for real-time DSP

Behavioral Finance: The Second Generation Meir Statman 2019-12-02 Behavioral finance presented in this book is the second-generation of behavioral finance. The first generation, starting in the early 1980s, largely accepted standard finance's notion of people's wants as "rational" wants—restricted to the utilitarian benefits of high returns and low risk. That first generation commonly described people as "irrational"—succumbing to cognitive and emotional errors and misled on their way to their rational wants. The second generation describes people as normal. It begins by acknowledging the full range of people's normal wants and their benefits—utilitarian, expressive, and emotional—distinguishes normal wants from errors, and offers guidance on using shortcuts and avoiding errors on the way to satisfying normal wants. People's normal wants include financial security, nurturing children and families, gaining high social status, and staying true to values. People's normal wants, even more than their cognitive and emotional shortcuts and errors, underlie answers to important questions of finance, including saving and spending, portfolio construction, asset pricing, and market efficiency.

Adaptive Filtering Paulo S. R. Diniz 2019-11-28 In the fifth edition of this textbook, author Paulo S.R. Diniz presents updated text on the basic concepts of adaptive signal processing and adaptive filtering. He first introduces the main classes of adaptive filtering algorithms in a unified framework, using clear notations that facilitate actual implementation. Algorithms are described in tables, which are detailed enough to allow the reader to verify the covered concepts. Examples address up-to-date problems drawn from actual applications. Several chapters are expanded and a new chapter 'Kalman Filtering' is included. The book provides a concise background on adaptive filtering, including the family of LMS, affine projection, RLS, set-membership algorithms and Kalman filters, as well as nonlinear, sub-band, blind, IIR adaptive filtering, and more. Problems are included at the end of chapters. A MATLAB package is provided so the reader can solve new problems and test algorithms. The book also offers easy access to working algorithms for practicing engineers.

Signal Analysis Ronald L. Allen 2004-06-07 Offers a well-rounded, mathematical approach to problems in signal interpretation using the latest time, frequency, and mixed-domain methods Equally useful as a reference, an up-to-date review, a learning tool, and a resource for signal analysis techniques Provides a gradual introduction to the mathematics so that the less mathematically adept reader will not be overwhelmed with instant hard analysis Covers Hilbert

spaces, complex analysis, distributions, random signals, analog Fourier transforms, and more

Continuous-Time Active Filter Design T. Deliyannis 2018-12-12 This book presents the design of active RC filters in continuous time. Topics include: filter fundamentals active elements realization of functions using opamps LC ladder filters operational transconductance amplifier circuits (OTACs) MOSFET-C filters Continuous-Time Active Filter Design uses wave variables to enable the reader to better understand the introduction of more complex variables created through linear transformations of voltages and currents. Intended for undergraduate students in electrical engineering, Continuous-Time Active Filter Design provides chapters as self-contained units, including introductory material leading to active RC filters.

Advanced Digital Signal Processing of Seismic Data Wail A. Mousa 2019-07-31 Presents an advanced overview of Digital Signal Processing and its applications to exploration seismology, for electrical engineers, geophysicists and petroleum professionals.

An Introduction to Digital Signal Processing Stanley Mnene 2009-01-10 Mnene's text focuses on basic concepts of digital signal processing, MATLAB simulation, and implementation on selected DSP hardware.

Introduction to Random Processes William A. Gardner 1990-01

Issues and trends in education for sustainable development Leicht, Alexander 2018-02-19

Digital Signal Processing John G. Proakis 1992

Analog and Digital Filter Design Steve Winder 2002-10-24 Unlike most books on filters, Analog and Digital Filter Design does not start from a position of mathematical complexity. It is written to show readers how to design effective and working electronic filters. The background information and equations from the first edition have been moved into an appendix to allow easier flow of the text while still providing the information for those who are interested. The addition of questions at the end of each chapter as well as electronic simulation tools has allowed for a more practical, user-friendly text. Provides a practical design guide to both analog and digital electronic filters Includes electronic simulation tools Keeps heavy mathematics to a minimum

Wind Energy Explained James F. Manwell 2010-09-14 Wind energy's bestselling textbook- fully revised. This must-have second edition includes up-to-date data, diagrams, illustrations and thorough new material on: the fundamentals of wind turbine aerodynamics; wind turbine testing and modelling; wind turbine design standards; offshore wind energy; special purpose applications, such as energy storage and fuel production. Fifty additional homework problems and a new appendix on data processing make this comprehensive edition perfect for engineering students. This book offers a complete examination of one of the most promising sources of renewable energy and is a great introduction to this cross-disciplinary field for practising engineers. "provides a wealth of information and is an excellent reference book for people interested in the subject of wind energy." (IEEE Power & Energy Magazine, November/December 2003) "deserves a place in the library of every university and college where renewable energy is taught." (The International Journal of Electrical Engineering Education, Vol.41, No.2 April 2004) "a very comprehensive and well-organized treatment of the current status of wind power." (Choice, Vol. 40, No. 4, December 2002)

Introduction to Information Retrieval Christopher D. Manning 2008-07-07 Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.

Digital Signal Processing Andreas Antoniou 2005-10-10 An up-to-the-minute textbook for junior/senior level signal processing courses and senior/graduate level digital filter design courses, this text is supported by a DSP software package known as D-Filter which would enable students to interactively learn the fundamentals of DSP and digital-filter design. The book includes a free license to D-Filter which will enable the owner of the book to download and install the most recent version of the software as well as future updates.

International Books in Print 1990

Two-Dimensional Digital Filters Wu-Sheng Lu 1992-07-15 Presents basic theories, techniques, and procedures used to analyze, design, and implement two-dimensional filters; and surveys a number of applications in image and seismic data processing that demonstrate their use in real-world signal processing. For graduate students in electrical and computer e

151 Trading Strategies Zura Kakushadze 2018-12-13 The book provides detailed descriptions, including more than 550 mathematical formulas, for more than 150 trading strategies across a host of asset classes and trading styles. These include stocks, options, fixed income, futures, ETFs, indexes, commodities, foreign exchange, convertibles, structured assets, volatility, real estate, distressed assets, cash, cryptocurrencies, weather, energy, inflation, global macro, infrastructure, and tax arbitrage. Some strategies are based on machine learning algorithms such as artificial neural networks, Bayes, and k-nearest neighbors. The book also includes source code for illustrating out-of-sample backtesting, around 2,000 bibliographic references, and more than 900 glossary, acronym and math definitions. The presentation is intended to be descriptive and pedagogical and of particular interest to finance practitioners, traders, researchers, academics, and business school and finance program students.

DSP Applications Using C and the TMS320C6x DSK Rulph Chassaing 2003-04-08 The TMS320C6x is Texas Instrument's next generation DSP found in over 60 percent of wireless devices from leading manufacturers such as Ericsson, Nokia, Sony, and Handspring Author has many years experience working with the TI line of TMS DSPs and his books are based on courses and seminars given at TI sponsored meetings All programs listed in the text will be available on the Wiley FTP site In addition to its wireless applications, the TMS DSP is tailored to enable a new generation of Internet media entertainment appliances Biomedical Digital Signal Processing Willis J. Tompkins 1993-01-01 Examining the full scope of digital signal processing in the biomedical field, this guide provides the basics of digital signal processing as well as C-language programs for designing and implementing simple digital filters.

Parentology Dalton Conley 2014-03-18 An award-winning scientist offers his unorthodox approach to childrearing: "Parentology is brilliant, jaw-droppingly funny, and full of wisdom...bound to change your thinking about parenting and its conventions" (Amy Chua, author of *Battle Hymn of the Tiger Mother*). If you're like many parents, you might ask family and friends for advice when faced with important choices about how to raise your kids. You might turn to parenting books or simply rely on timeworn religious or cultural traditions. But when Dalton Conley, a dual-doctorate scientist and full-blown nerd, needed childrearing advice, he turned to scientific research to make the big decisions. In *Parentology*, Conley hilariously reports the results of those experiments, from bribing his kids to do math (since studies show conditional cash transfers improved educational and health outcomes for kids) to teaching them impulse control by giving them weird names (because evidence shows kids with unique names learn not to react when their peers tease them) to getting a vasectomy (because fewer kids in a family mean smarter kids). Conley encourages parents to draw on the latest data to rear children, if only because that level of engagement with kids will produce solid and happy ones. Ultimately these experiments are very loving, and the outcomes are redemptive—even when Conley's sassy kids show him the limits of his profession. *Parentology* teaches you everything you need to know about the latest literature on parenting—with lessons that go down easy. You'll be laughing and learning at the same time.

Digital Signal Processing Handbook on CD-ROM VIJAY MADISSETTI 1999-02-26 A best-seller in its print version, this comprehensive CD-ROM reference contains unique, fully searchable coverage of all major topics in digital signal processing (DSP), establishing an invaluable, time-saving resource for the engineering community. Its unique and broad scope includes contributions from all DSP specialties, including: telecommunications, computer engineering, acoustics, seismic data analysis, DSP software and hardware, image and video processing, remote sensing, multimedia applications, medical technology, radar and sonar applications

Digital Signal Processing and Applications with the C6713 and C6416 DSK Rulph Chassaing 2004-12-20 This book is a tutorial on digital techniques for waveform generation, digital filters, and digital signal processing tools and techniques The typical chapter begins with some theoretical material followed by working examples and experiments using the TMS320C6713-based DSPStarter Kit (DSK) The C6713 DSK is TI's newest signal processor based on the C6x processor (replacing the C6711 DSK)

Digital Filters Andreas Antoniou 1979

Exploring BeagleBone Derek Molloy 2014-12-31 In-depth instruction and practical techniques for building with the BeagleBone embedded Linux platform Exploring BeagleBone is a hands-on guide to bringing gadgets, gizmos, and robots to life using the popular BeagleBone embedded Linux platform.

Comprehensive content and deep detail provide more than just a BeagleBone instruction manual—you'll also learn the underlying engineering techniques that will allow you to create your own projects. The book begins with a foundational primer on essential skills, and then gradually moves into communication, control, and advanced applications using C/C++, allowing you to learn at your own pace. In addition, the book's companion website features instructional videos, source code, discussion forums, and more, to ensure that you have everything you need. The BeagleBone's small size, high performance, low cost, and extreme adaptability have made it a favorite development platform, and the Linux software base allows for complex yet flexible functionality. The

BeagleBone has applications in smart buildings, robot control, environmental sensing, to name a few; and, expansion boards and peripherals dramatically increase the possibilities. Exploring BeagleBone provides a reader-friendly guide to the device, including a crash course in computer engineering. While following step by step, you can: Get up to speed on embedded Linux, electronics, and programming Master interfacing electronic circuits, buses and modules, with practical examples Explore the Internet-connected BeagleBone and the BeagleBone with a display Apply the BeagleBone to sensing applications, including video and sound Explore the BeagleBone's Programmable Real-Time Controllers Hands-on learning helps ensure that your new skills stay with you, allowing you to design with electronics, modules, or peripherals even beyond the BeagleBone. Insightful guidance and online peer support help you transition from beginner to expert as you master the techniques presented in Exploring BeagleBone, the practical handbook for the popular computing platform.