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Sliding Mode Control in Science and Engineering **Structural Analysis Vol II** **Anywhere But Home: Adventures in Endurance** **Advances in System Dynamics and Control** [What's Wrong with You, Karthik?](#) *Advances in Memristors, Memristive Devices and Systems* **Dynamic Reconfiguration** **Caste as Social Capital** **Advances and Applications in Nonlinear Control Systems** **Fractional Order Control and Synchronization of Chaotic Systems** **Backstepping Control of Nonlinear Dynamical Systems** *Under the Spell...* **Chaos Modeling and Control Systems** **Design Weaving Magic - the Word Way!** **Poetry with Pictures... Casting the Spell...**

**Spirituality Bytes Project
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for Medical Students**
Nonlinear Dynamical Systems
with Self-Excited and Hidden
Attractors *Advances and
Applications in Chaotic
Systems* **Philosophies in
Ayurveda for All**

There is no established definition of spirituality. But what a common man needs is a working idea, a concept which he can easily identify with and one which he can practice with reasonable ease and comfort. This book is an endeavour in that direction. It presents some logical explanation and understanding about God, religion, life, journey to enlightenment, ego and mental demons. Also, it deals with emotions, fear, self-esteem, human relationships, the art of listening, death, human instincts, mind, fate and destiny, and meditation. Poetry is often the best language to express your emotions. Here is a small collection of 25 poems - the first of my four book series,

written based on word prompts, which were originally published on my blog. Hope you enjoy reading them! This book highlights the latest findings on nonlinear dynamical systems including two types of attractors: self-excited and hidden attractors. Further, it presents both theoretical and practical approaches to investigating nonlinear dynamical systems with self-excited and hidden attractors. The book includes 20 chapters contributed by respected experts, which focus on various applications such as biological systems, memristor-based systems, fractional-order systems, finance systems, business cycles, oscillators, coupled systems, hyperchaotic systems, flexible robot manipulators, electronic circuits, and control models. Special attention is given to modeling, design, circuit realization, and practical applications to address recent research problems in nonlinear dynamical systems. The book provides a valuable reference guide to nonlinear dynamical

systems for engineers, researchers, and graduate students, especially those whose work involves mechanics, electrical engineering, and control systems. Poetry is often the best language to express your emotions. Here is a small collection of 25 poems - the second of my four book series - the first being "Weaving Magic - The Word Way", written based on word prompts, which were originally published on my blog. Hope you enjoy reading them! Poetry is often the best language to express your emotions. Here is a small collection of 25 poems - the third of my four book series (the first and the second are "Weaving Magic - The Word Way" and "Casting The Spell") written based on word prompts, which were originally published on my blog. Hope you enjoy reading them! Of Properties Relating to Levinson's Recursion. Practice what you preach is an idiom that everyone is familiar with. But most of the time due to paucity of time or other

inconvenience, we often end up preaching and not practising. My Green Colouring Book is an initiative of TERI to introduce young learners to sustainability, who will become responsible and environmentally conscious citizens. This book introduces children to the natural world around them, which includes plants, animals, birds, and our surroundings. Children are given ample opportunities to learn along with having fun. The fun-filled colouring activities will enhance the motor skills of children. It is imperative to develop a better fist grip before moving onto developing pincer grip. Our book will help the child to go through a smooth transition thereby practicing: □ Fist grip □ Four-finger grip □ Pincer grip Backstepping Control of Nonlinear Dynamical Systems addresses both the fundamentals of backstepping control and advances in the field. The latest techniques explored include 'active backstepping control', 'adaptive backstepping

control', 'fuzzy backstepping control' and 'adaptive fuzzy backstepping control'. The reference book provides numerous simulations using MATLAB and circuit design. These illustrate the main results of theory and applications of backstepping control of nonlinear control systems. Backstepping control encompasses varied aspects of mechanical engineering and has many different applications within the field. For example, the book covers aspects related to robot manipulators, aircraft flight control systems, power systems, mechanical systems, biological systems and chaotic systems. This multifaceted view of subject areas means that this useful reference resource will be ideal for a large cross section of the mechanical engineering community. Details the real-world applications of backstepping control Gives an up-to-date insight into the theory, uses and application of backstepping control Bridges the gaps for different fields of engineering, including

mechanical engineering, aeronautical engineering, electrical engineering, communications engineering, robotics and biomedical instrumentation Intended and designed to be used in senior undergraduate and graduate level classes as an introductory course in project management, Project Management: Process, Technology & Practice, includes process, knowledge areas, and A Guide to the Scrum Body of Knowledge (SBOKTM Guide) to provide a detailed view of Agile methods. Project Management: Process, Technology & Practice by Ganesh Vaidyanathan: Integrates many examples of practices from aerospace, automotive, construction, new product development, healthcare, and IT industries covers major IT software processes including SEI/CMM, SDLC, iterative approach, spiral model, rational unified process, Agile model, and the extreme programming model includes PMBOK® project management processes, continuous improvement

management of projects, and Six Sigma are included devotes a supplemental chapter on Agile Project Management covers project management topics such as brainstorming, thought process map (TMAP), quality functional deployment, Kano model, affinity diagram, fishbone diagrams, check sheets, Pareto chart, Nominal Grouping Technique, Delphi technique, SWOT analysis, and burndown charts explained step by step with "real-world" examples features project initiation methods including how to select projects and set priorities; how to write a project charter; how to select a project manager and project team; how to identify stakeholders and conduct stakeholder analysis; how to gather requirements for a project; and how to prepare and write a project scope. The chapter includes how companies align their project strategy with their corporate strategy with examples integrates decision-making methods for procurement with various types of contracts

covers risk identification, planning, monitoring, and control includes techniques such as Project Failure Mode and Effects Analysis (PFMEA) and decision trees To make the transition to the publication virtually seamless, the author has created supplemental and instructor resources, including: Instructor's Manual Excel files for book examples and answers to all end-of-chapter questions Customizable PowerPoint Presentations Test Item File with an extensive set of multiple choice, true/false, and essay-type questions for each chapter ranked according to difficulty level and referenced with page numbers from the text Image Library Project management templates- Students understand how to write plans and project documents. These templates are filled with examples Student projects Library-A compilation of students' projects from various universities is available on the book website In addition, all book materials will be available as videos suitable for online

classes. The videos will be of 15-minute short duration modules which will be suitable for students to learn effectively. This will also allow the instructors to choose parts of each chapter that is pertinent and important for themselves and their students. I have used such videos in my online classes and the feedback from students have been very positive. Mr. B.Vaidyanathan, a Chemical Engineer by profession, and Chief Mentor, Consumer Protection Council, Rourkela, has been associated with the Indian consumer movement, for well over 30 years and has many achievements to his credit, apart from organising a voluntary consumer organisation in the tribal belt of Odisha. His single handed initiative through the National Consumer Disputes Redressal Commission (NCDRC), against the short-filling of cooking gas refills, resulted in the upgradation of 184 LPG bottling plants of the three Public Sector Oil Companies, M/s IOCL, BPCL and HPCL.

Towards this upgradation, the Ministry of Petroleum & Natural Gas, Govt. of India, had to spend over Rs. 300 crores. The mute point is that this upgradation has brought relief to crores of unsuspecting housewives from Kashmir to Kanyakumari. Though the Supreme Court failed to deliver justice, in terms of compensation and punitive damages payable to a voluntary consumer organisation and to the Consumer Welfare Fund, as prescribed in the Consumer Protection Act, his determined zeal to pursue the matter till the filing of the Curative Petition and thereafter, should be an inspiration for all those young people, who have the nerves and the commitment to pursue social goals. Mr. Vaidyanathan has shared his varied experiences in this book, which is a must read not only for the interesting cases narrated therein, but a motivational story, led by an example of 'Never Say Die'. This narrative has been made all the more interesting by sharing informative

experiences relating to important consultative bodies and how the activists need to work to ensure delivery and what the government needs to do to protect the consumers better. The development of computational intelligence (CI) systems was inspired by observable and imitable aspects of intelligent activity of human being and nature. The essence of the systems based on computational intelligence is to process and interpret data of various nature so that that CI is strictly connected with the increase of available data as well as capabilities of their processing, mutually supportive factors. Developed theories of computational intelligence were quickly applied in many fields of engineering, data analysis, forecasting, biomedicine and others. They are used in images and sounds processing and identifying, signals processing, multidimensional data visualization, steering of objects, analysis of lexicographic data, requesting systems in banking, diagnostic

systems, expert systems and many other practical implementations. This book consists of 15 contributed chapters by subject experts who are specialized in the various topics addressed in this book. The special chapters have been brought out in the broad areas of Control Systems, Power Electronics, Computer Science, Information Technology, modeling and engineering applications. Special importance was given to chapters offering practical solutions and novel methods for the recent research problems in the main areas of this book, viz. Control Systems, Modeling, Computer Science, IT and engineering applications. This book will serve as a reference book for graduate students and researchers with a basic knowledge of control theory, computer science and soft-computing techniques. The resulting design procedures are emphasized using Matlab/Simulink software. This book represents the monumental work of Swami R.

Vaidyanathan (1913-1990), who was a research student at Cambridge under Lord Rutherford from 1934 to 1938. Through nine aphorisms, it presents a complete and unique philosophy. It is an independent work, not based on any book or person or symbol, and offers a new view of a way of living and a new conception of self-regarding. Though the main aim of this philosophy is the reduction of human suffering and the promotion of world welfare, the foundation it gives to establish the philosophy to achieve that aim represents a complex network of ideas that are all amazingly interwoven and interrelated. What's common between Amitabh Bachchan, Dilip Kumar, Shankar Mahadevan, Seth Macfarlane and Al Pacino? Each of them has a great voice. A person's voice is an important part of their identity. No matter if you are an actor, singer, teacher, salesman or a CEO - a good, strong, confident voice will make people listen to you. In this useful manual, well-known

voice, diction and accent coach Rama Vaidyanathan makes a case for superior vocal hygiene and writes about a variety of subjects that can help you develop it - breath control, learning to speak from the belly and not the throat, voice projection, modulation, voice endurance and pronunciation. Written in a simple, lucid and friendly tone and full of easy exercises you can try at home, Discover Your Voice will help you unleash the full potential of your vocal cords and communicate better. Romance with poetry and pictures. Poetry for all seasons, poetry for all reasons. Poetry that conveys all emotions. Find poetry in here, to add joy to all your celebrations. The book reports on the latest advances in and applications of fractional order control and synchronization of chaotic systems, explaining the concepts involved in a clear, matter-of-fact style. It consists of 30 original contributions written by eminent scientists and active researchers in the field that address theories,

methods and applications in a number of research areas related to fractional order control and synchronization of chaotic systems, such as: fractional chaotic systems, hyperchaotic systems, complex systems, fractional order discrete chaotic systems, chaos control, chaos synchronization, jerk circuits, fractional chaotic systems with hidden attractors, neural network, fuzzy logic controllers, behavioral modeling, robust and adaptive control, sliding mode control, different types of synchronization, circuit realization of chaotic systems, etc. In addition to providing readers extensive information on chaos fundamentals, fractional calculus, fractional differential equations, fractional control and stability, the book also discusses key applications of fractional order chaotic systems, as well as multidisciplinary solutions developed via control modeling. As such, it offers the perfect reference guide for graduate students, researchers and practitioners in the areas

of fractional order control systems and fractional order chaotic systems. Do scientists see conflict between science and faith? Which cultural factors shape the attitudes of scientists toward religion? Can scientists help show us a way to build collaboration between scientific and religious communities, if such collaborations are even possible? To answer these questions and more, the authors of *Secularity and Science: What Scientists Around the World Really Think About Religion* completed the most comprehensive international study of scientists' attitudes toward religion ever undertaken, surveying more than 20,000 scientists and conducting in-depth interviews with over 600 of them. From this wealth of data, the authors extract the real story of the relationship between science and religion in the lives of scientists around the world. The book makes four key claims: there are more religious scientists than we might think; religion and

science overlap in scientific work; scientists - even atheist scientists - see spirituality in science; and finally, the idea that religion and science must conflict is primarily an invention of the West. Throughout, the book couples nationally representative survey data with captivating stories of individual scientists, whose experiences highlight these important themes in the data. *Secularity and Science* leaves inaccurate assumptions about science and religion behind, offering a new, more nuanced understanding of how science and religion interact and how they can be integrated for the common good. Chronic venous disorders are a major health problem due to their wide prevalence and socio-economic considerations. This book is a comprehensive manual providing state-of-the-art information on the diagnosis and management of these common problems. Till recently venous disorders have been getting secondary attention as compared to their arterial counterpart. However,

the last two decades witnessed major technological advancements and therapeutic strategies for these problems. Written with a surgical perspective, this monograph covers the latest developments and recommended procedures in an easy-to-read format guiding the surgeon to prepare a rational treatment plan. Supplemented with numerous figures and illustrations, the chapters update the readers with how to evaluate such patients in their practices, selection criteria for appropriate procedures and how to manage the complications. The book includes basics of venous disorders, primary varicose veins and recurrence after surgery, chronic venous insufficiency, venous ulcers and congenital venous malformations. Detailed coverage of endo-venous procedures such as radio-frequency ablation, laser ablation and foam sclerotherapy are additional essential features of this book. Primarily intended for the

practicing general surgeon, this volume is also relevant for residents in general surgery and vascular surgery. Provides the first complete treatment of MIMO transceiver optimization, with plenty of examples, important background material, and detailed summaries. Complex systems are pervasive in many areas of science. With the increasing requirement for high levels of system performance, complex systems has become an important area of research due to its role in many industries. Advances in System Dynamics and Control provides emerging research on the applications in the field of control and analysis for complex systems, with a special emphasis on how to solve various control design and observer design problems, nonlinear systems, interconnected systems, and singular systems. Featuring coverage on a broad range of topics, such as adaptive control, artificial neural network, and synchronization, this book is an important

resource for engineers, professionals, and researchers interested in applying new computational and mathematical tools for solving the complicated problems of mathematical modeling, simulation, and control. Credit Risk Management for Indian Banks is a one-stop reference book for practising credit risk professionals in the Indian banking sector. This is the first book of its kind, which is exclusively targets the practical needs of Indian bankers. It lays more emphasis on the ground realities of Indian banking and enunciates principles and guidelines of credit risk management based on real-life situations. On the philosophy of Ayurvedic system in Indic medicine. This book reports on the latest advances and applications of chaotic systems. It consists of 25 contributed chapters by experts who are specialized in the various topics addressed in this book. The chapters cover a broad range of topics of chaotic systems such as chaos, hyperchaos, jerk systems,

hyperjerk systems, conservative and dissipative systems, circulant chaotic systems, multi-scroll chaotic systems, finance chaotic system, highly chaotic systems, chaos control, chaos synchronization, circuit realization and applications of chaos theory in secure communications, mobile robot, memristors, cellular neural networks, etc. Special importance was given to chapters offering practical solutions, modeling and novel control methods for the recent research problems in chaos theory. This book will serve as a reference book for graduate students and researchers with a basic knowledge of chaos theory and control systems. The resulting design procedures on the chaotic systems are emphasized using MATLAB software. The definitive “Customer Success Manager How-To-Guide” for the CSM profession from Gainsight, who brought you the market-leading Customer Success The Customer Success Manager has become a critical

asset to organizations across the business landscape. As the subscription model has spread from the cloud and SaaS to more sectors of the economy, that pivotal role will only grow in importance. That’s because if you want to compete and thrive in this new environment, you need to put the customer at the center of your strategy. You need to recognize you’re no longer selling just a product. You’re selling an outcome. Customer Success Managers (CSM) are committed to capturing and delivering those outcomes by listening to their customers, understanding their needs, and adapting products and services to drive success. Although several existing resources address the customer success imperative, there is no authoritative instruction manual for the CSM profession—until now. The Customer Success Professional’s Handbook is the definitive reference book for CSMs and similar roles in the field. This practical, first-of-its-kind manual fills a significant

gap in professional customer success literature, providing the knowledge every CSM needs to succeed—from the practitioner level all the way to senior leadership. The authors—acknowledged experts in building, training, and managing Customer Success teams—offer real-world guidance and practical advice for aspiring and experienced CSMs alike. The handbook is written by practitioners for practitioners. An indispensable resource for front-line Customer Success Managers, this much-needed book: Demonstrates how to build, implement, and manage a Customer Success team Helps new CSMs develop their skills and proficiency to be more employable and grow in their careers Provides clear guidance for managers on how to hire a stellar CSM Presents practical tactics needed to drive revenue growth during renewal, expansion, and customer advocacy opportunities Explains proven methods and strategies for mentoring CSMs throughout

their careers Offers valuable insights from Gainsight, the Customer Success Company, and the broader customer success community with more than a dozen of the industry's most respected leaders contributing their perspectives Currently, with over 70,000 open positions, Customer Success Manager is one of the fastest-growing jobs in the world. The Customer Success Professional's Handbook: How to Thrive in One of the World's Fastest Growing Careers—While Driving Growth For Your Company will prove to be your go-to manual throughout every stage of your CSM career. Shortlisted for the Restless Books Prize for New Immigrant Writing 'Fun, entertaining, delightful' — Rahul Dravid 'A warm, minutely detailed evocation of boyhood . . . textured like life itself' — Samantha Subramanian A charming tale of a young schoolboy trying to find his place in a changing world. Twelve-year-old Karthik Subramanian has just been granted admission into St

George's, an elite boys' school in Bangalore that has supported the academic lives of 'four state cricketers, one India captain, tens of professors, hundreds of doctors, engineers and scientists, thousands of chartered accountants ...' In this most exalted of institutions, Karthik yearns for recognition as an academic superstar. Rigorously prepped by his parents and grandfather, dutifully offering his prayers to Lord Ganesha, Karthik steps into this new world. But nothing has prepared him for the challenges that lie in wait and he is left to himself to navigate the cruelties of school life, and the transition into adolescence. The less his family learns about his friends, the better. There are threats all around, even violence. Brilliant in its observations of a motley cast of characters, and finely calibrated for humour and sadness, *What's Wrong with You, Karthik?* is a poignant, exuberant debut from a writer of rare calibre. This book reports on the latest advances in and applications of

memristors, memristive devices and systems. It gathers 20 contributed chapters by subject experts, including pioneers in the field such as Leon Chua (UC Berkeley, USA) and R.S. Williams (HP Labs, USA), who are specialized in the various topics addressed in this book, and covers broad areas of memristors and memristive devices such as: memristor emulators, oscillators, chaotic and hyperchaotic memristive systems, control of memristive systems, memristor-based min-max circuits, canonic memristors, memristive-based neuromorphic applications, implementation of memristor-based chaotic oscillators, inverse memristors, linear memristor devices, delayed memristive systems, flux-controlled memristive emulators, etc. Throughout the book, special emphasis is given to papers offering practical solutions and design, modeling, and implementation insights to address current research problems in memristors, memristive devices and

systems. As such, it offers a valuable reference book on memristors and memristive devices for graduate students and researchers with a basic knowledge of electrical and control systems engineering. Poetry is often the best language to express your emotions. Here is a small collection of 25 poems - the final book of my four book series (the first being "Weaving Magic - The Word Way", the second, "Casting The Spell" and the third, "Under the spell") written based on word prompts, which were originally published on my blog. Hope you enjoy reading them! The book reports on the latest advances and applications of nonlinear control systems. It consists of 30 contributed chapters by subject experts who are specialized in the various topics addressed in this book. The special chapters have been brought out in the broad areas of nonlinear control systems such as robotics, nonlinear circuits, power systems, memristors, underwater vehicles, chemical

processes, observer design, output regulation, backstepping control, sliding mode control, time-delayed control, variables structure control, robust adaptive control, fuzzy logic control, chaos, hyperchaos, jerk systems, hyperjerk systems, chaos control, chaos synchronization, etc. Special importance was given to chapters offering practical solutions, modeling and novel control methods for the recent research problems in nonlinear control systems. This book will serve as a reference book for graduate students and researchers with a basic knowledge of electrical and control systems engineering. The resulting design procedures on the nonlinear control systems are emphasized using MATLAB software. Despite being blessed with the power of intelligence, logic, imagination and analysis, why do we humans struggle to use the gift of common sense in so many areas of our lives? Have you ever found yourself wondering... Why do we get

angry or irritated? Why do we feel guilty? Why do we tell lies or get defensive? Why is there so much lack of trust? Why do we struggle to accept ourselves as we are? Why do we often complicate our own lives? Why do we love to criticize or shy away from candid conversation? The simple truth is that we could handle situations better and solve dilemmas just by applying common sense. This book takes a clear-eyed look at day-to-day scenarios we are all familiar with, in which, by simply altering our perspective and using some common sense, we can resolve or reduce our issues. It serves as a down-to-earth guide to letting go of negative emotions such as anger, frustration, guilt, grief, irritation, unhappiness and joylessness. These pages are dedicated to helping people live their lives with greater ease, freedom, and simplicity – by consciously using the most important tool existence has bestowed upon us – common sense. *Mercenaries and Missionaries* examines the

relationship between rapidly diffusing forms of capitalism and Christianity in the Global South. Using more than two hundred interviews in Bangalore and Dubai, Brandon Vaidyanathan explains how and why global corporate professionals straddle conflicting moral orientations in the realms of work and religion. Seeking to place the spotlight on the role of religion in debates about the cultural consequences of capitalism, Vaidyanathan finds that an "apprehensive individualism" generated in global corporate workplaces is supported and sustained by a "therapeutic individualism" cultivated in evangelical-charismatic Catholicism. *Mercenaries and Missionaries* uncovers a symbiotic relationship between these individualisms and shows how this relationship unfolds in two global cities—Dubai, in non-democratic UAE, which holds what is considered the world's largest Catholic parish, and Bangalore, in democratic India, where the Catholic Church, though afflicted by

ethnic and religious violence, runs many of the city's elite educational institutions. Vaidyanathan concludes that global corporations and religious communities create distinctive cultures, with normative models that powerfully orient people to those cultures—the Mercenary in cutthroat workplaces, and the Missionary in churches. As a result, global corporate professionals in rapidly developing cities negotiate starkly opposing moral commitments in the realms of work and religion, which in turn shapes their civic commitment to these cities. Anu Vaidyanathan is the first Asian woman to complete Ultraman Canada: a punishing 10-kilometre swim, a 420-kilometre bike ride and an 84.4-kilometre run. She placed sixth. Which is breath-taking. But what is your typical good Indian girl, super-nerd doing at the Ultraman? Anywhere but Home is the funny, heart-breaking, unexpected story of a woman who would not give up. As she followed her passion on

the roads of Bangalore and across several Indian cities, coaches advised her to get married. She was stuck in sports facilities that lacked basic support systems, even toilets. If she wanted to compete, it would need to be on her own salary. All she could rely on were her own two feet and the seat of her bike. With self-deprecatory humour and characteristic curiosity, Vaidyanathan tells the story of how she found triathlon, how she came to be training in one of the most challenging sports in the world. She writes of her many firsts in the Ultraman, Ironman, Half-Ironman, but also of motherhood and pushing the boundaries of what a body can do. Heart-warming and heart-breaking, this is most of all a tale of love: for a sport and for life. Gathering 20 chapters contributed by respected experts, this book reports on the latest advances in and applications of sliding mode control in science and engineering. The respective chapters address applications of sliding mode control in the

broad areas of chaos theory, robotics, electrical engineering, physics, chemical engineering, memristors, mechanical engineering, environmental engineering, finance, and biology. Special emphasis has been given to papers that offer practical solutions, and which examine design and modeling involving new types of sliding mode control such as higher order sliding mode control, terminal sliding mode control, super-twisting sliding mode control, and integral sliding mode control. This book serves as a unique reference guide to sliding mode control and its recent applications for graduate students and researchers with a basic knowledge of electrical and control systems engineering. This book provides the basis of simulating a nuclear plant, in understanding the knowledge of how such simulations help in assuring the safety of the plants, thereby protecting the public from accidents. It provides the reader with an in-depth knowledge about

modeling the thermal and flow processes in a fast reactor and gives an idea about the different numerical solution methods. The text highlights the application of the simulation to typical sodium-cooled fast reactor. The book • Discusses mathematical modeling of the heat transfer process in a fast reactor cooled by sodium. • Compares different numerical techniques and brings out the best one for the solution of the models. • Provides a methodology of validation based on experiments. • Examines modeling and simulation aspects necessary for the safe design of a fast reactor. • Emphasizes plant dynamics aspects, which is important for relating the interaction between the components in the heat transport systems. • Discusses the application of the models to the design of a sodium-cooled fast reactor It will serve as an ideal reference text for senior undergraduate, graduate students, and academic researchers in the fields of nuclear engineering,

mechanical engineering, and power cycle engineering. Creative Coding in Python presents over 30 creative projects that teach kids how to code in the easy and intuitive programming language, Python. Creative Coding in Python teaches the fundamentals of computer programming and demonstrates how to code 30+ fun, creative projects using Python, a free, intuitive, open-source programming language that's one of the top five most popular worldwide and one of the most popular Google search terms in the U.S. Computer science educator Sheena Vaidyanathan helps kids understand the fundamental ideas of computer programming and the process of computational thinking using illustrations, flowcharts, and pseudocode, then shows how to apply those essentials to code exciting projects in Python: Chatbots: Discover variables, strings, integers, and more to design conversational programs. Geometric art: Use turtle graphics to create

original masterpieces. Interactive fiction: Explore booleans and conditionals to invent "create your own adventure" games. Dice games: Reuse code to devise games of chance. Arcade games and apps: Understand GUI (graphical user interfaces) and create your own arcade games and apps. What's next? Look at exciting ways to use your powerful new skills and expand your knowledge of coding in Python. Creative Coding in Python gives kids the tools they need to create their own computer programs. Dynamic Reconfiguration: Architectures and Algorithms offers a comprehensive treatment of dynamically reconfigurable computer architectures and algorithms for them. The coverage is broad starting from fundamental algorithmic techniques, ranging across algorithms for a wide array of problems and applications, to simulations between models. The presentation employs a single reconfigurable model (the reconfigurable mesh) for most algorithms, to enable the

reader to distill key ideas without the cumbersome details of a myriad of models. In addition to algorithms, the book discusses topics that provide a better understanding of dynamic reconfiguration such as scalability and computational power, and more recent advances such as optical models, run-time reconfiguration (on FPGA and related platforms), and implementing dynamic reconfiguration. The book, featuring many examples and a large set of exercises, is an excellent textbook or reference for a graduate course. It is also a useful reference to researchers and system developers in the area. Providing key background material together with advanced topics, this self-contained book is written in an easy-to-read style and is ideal for newcomers to multicarrier systems. Early chapters provide a review of basic digital communication, starting from the equivalent discrete time channel and including a detailed review of the MMSE

receiver. Later chapters then provide extensive performance analysis of OFDM and DMT systems, with discussions of many practical issues such as implementation and power spectrum considerations. Throughout, theoretical analysis is presented alongside practical design considerations, whilst the filter bank transceiver representation of OFDM and DMT systems opens up possibilities for further optimization such as minimum bit error rate, minimum transmission power, and higher spectral efficiency. With plenty of insightful real-world examples and carefully designed end-of-chapter problems this is an ideal single-semester textbook for senior undergraduate and graduate students, as well as a self-study guide for researchers and professional engineers.

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