

Points Lines Diagrams And Projects For The City

A tour of 70 small, experimental architectural magazines published during the 1960s and 1970s offers insight into their format and influence, in a volume that is complemented by reproductions of pamphlets and building instruction manuals from the same period.

Architectural Graphics focuses on the techniques, methodologies, and graphic tools used in conveying architectural ideas. The book takes a look at equipment and materials, architectural drafting, and architectural drawing conventions. Discussions focus on drawing pencils, technical drawing pens, set squares/templates, circle templates/compasses, line weight/line types, drafting technique, drawing circular elements, floor plan, doors and windows in plan, stairs, wall indications, plan grids, and site boundaries. The manuscript examines rendition of value and context and graphic symbols and lettering. Topics include tonal values, media and techniques, value/texture rendition, material rendition, shades and shadows, people, furniture, graphic representation symbols, and hand lettering. The text explores freehand drawing and architectural presentations, including freehand sketching, graphic diagramming, and sketching equipment. The publication is a valuable reference for architects interested in doing further studies in architectural graphics.

Presents instructions on using MySQL, covering such topics as installation, querying, user management, security, and backups and recovery.

Covering every aspect of drawing preparation, both manual and computer-aided, this comprehensive manual is an essential tool for students, architects and architectural technologists. Showing what information is required on each type of document, how drawings

relate to specifications, and how to organize and document your work, this handbook presents a fully illustrated guide to all the key methods and techniques. Thoroughly revised and redesigned, this fourth edition has brand new computer-generated drawings throughout and is updated to cover all aspects of computer use in the modern building design process. Concise lessons in design, drawing, the creative process, and presentation, from the basics of "How to Draw a Line" to the complexities of color theory. This is a book that students of architecture will want to keep in the studio and in their backpacks. It is also a book they may want to keep out of view of their professors, for it expresses in clear and simple language things that tend to be murky and abstruse in the classroom. These 101 concise lessons in design, drawing, the creative process, and presentation—from the basics of "How to Draw a Line" to the complexities of color theory—provide a much-needed primer in architectural literacy, making concrete what too often is left nebulous or open-ended in the architecture curriculum. Each lesson utilizes a two-page format, with a brief explanation and an illustration that can range from diagrammatic to whimsical. The lesson on "How to Draw a Line" is illustrated by examples of good and bad lines; a lesson on the dangers of awkward floor level changes shows the television actor Dick Van Dyke in the midst of a pratfall; a discussion of the proportional differences between traditional and modern buildings features a drawing of a building split neatly in half between the two. Written by an architect and instructor who remembers well the fog of his own student days, *101 Things I Learned in Architecture School* provides valuable guideposts for navigating the design studio and other classes in the architecture curriculum. Architecture graduates—from young designers to experienced practitioners—will turn to the book as well, for inspiration and a guide back to basics when

solving a complex design problem.

The Routledge Research Companion to Landscape Architecture considers landscape architecture's increasingly important cultural, aesthetic, and ecological role. The volume reflects topical concerns in theoretical, historical, philosophical, and practice-related research in landscape architecture – research that reflects our relationship with what has traditionally been called 'nature'. It does so at a time when questions about the use of global resources and understanding the links between human and non-human worlds are more crucial than ever. The twenty-five chapters of this edited collection bring together significant positions in current landscape architecture research under five broad themes – History, Sites and Heritage, City and Nature, Ethics and Sustainability, Knowledge and Practice – supplemented with a discussion of landscape architecture education. Prominent as well as up-and-coming contributors from landscape architecture and adjacent fields including Tom Avermaete, Peter Carl, Gareth Doherty, Ottmar Ette, Matthew Gandy, Christophe Girod, Anne Whiston Spirn, Ian H. Thompson and Jane Wolff seek to widen, fuel, and frame critical discussion in this growing area. A significant contribution to landscape architecture research, this book will be beneficial not only to students and academics in landscape architecture, but also to scholars in related fields such as history, architecture, and social studies.

Authored by two of the leading authorities in the field, this guide offers readers the knowledge and skills needed to achieve proficiency with embedded software.

Points and LinesDiagrams and Projects for the CityPrinceton Architectural Press

The landmark project management reference, now in a new edition Now in a Tenth Edition, this industry-leading project management "bible" aligns its streamlined approach to the latest

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release of the Project Management Institute's Project Management Body of Knowledge (PMI®'s PMBOK® Guide), the new mandatory source of training for the Project Management Professional (PMP®) Certification Exam. This outstanding edition gives students and professionals a profound understanding of project management with insights from one of the best-known and respected authorities on the subject. From the intricate framework of organizational behavior and structure that can determine project success to the planning, scheduling, and controlling processes vital to effective project management, the new edition thoroughly covers every key component of the subject. This Tenth Edition features: New sections on scope changes, exiting a project, collective belief, and managing virtual teams More than twenty-five case studies, including a new case on the Iridium Project covering all aspects of project management 400 discussion questions More than 125 multiple-choice questions (PMI, PMBOK, PMP, and Project Management Professional are registered marks of the Project Management Institute, Inc.)

A comprehensive book on project management, covering all principles and methods with fully worked examples, this book includes both hard and soft skills for the engineering, manufacturing and construction industries. Ideal for engineering project managers considering obtaining a Project Management Professional (PMP) qualification, this book covers in theory and practice, the complete body of knowledge for both the Project Management Institute (PMI) and the Association of Project Management (APM). Fully aligned with the latest 2005 updates to the exam syllabi, complete with online sample Q&A, and updated to include the latest revision of BS 6079 (British Standards Institute Guide to Project Management in the Construction Industry), this book is a complete and valuable reference for anyone serious

about project management. • The complete body of knowledge for project management professionals in the engineering, manufacturing and construction sectors • Covers all hard and soft topics in both theory and practice for the newly revised PMP and APMP qualification exams, along with the latest revision of BS 6079 standard on project management in the construction industry • Written by a qualified PMP exam accreditor and accompanied by online Q&A resources for self-testing

It includes hundreds of tips, pictures, diagrams and tables that every excavation contractor and supervisor can use This revised edition explains how to handle all types of excavation, grading, paving, pipeline and compaction jobs -- whether it's a highway, subdivision, commercial, or trenching job. This edition has been completely rewritten to cover new materials, equipment and techniques. It includes hundreds of tips, pictures, diagrams and tables.

S, M, L, XL presents a selection of the remarkable visionary design work produced by the Dutch firm Office for Metropolitan Architecture (O.M.A.) and its acclaimed founder, Rem Koolhaas, in its first twenty years, along with a variety of insightful, often poetic writings. The inventive collaboration between Koolhaas and designer Bruce Mau is a graphic overture that weaves together architectural projects, photos and sketches, diary excerpts, personal travelogues, fairy tales, and fables, as well as critical essays on contemporary architecture and society. The book's title is also its framework: projects and essays are arranged according to scale. While Small and Medium address issues ranging from the domestic to the public, Large focuses on what Koolhaas calls "the architecture of Bigness." Extra-Large features projects at the urban scale, along with the important essay "What Ever Happened to Urbanism?" and other studies of the contemporary city. Running throughout the book is a "dictionary" of an adventurous new

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Koolhaasian language -- definitions, commentaries, and quotes from hundreds of literary, cultural, artistic, and architectural sources.

To support the broadening spectrum of project delivery approaches, PMI is offering A Guide to the Project Management Body of Knowledge (PMBOK® Guide) – Sixth Edition as a bundle with its latest, the Agile Practice Guide. The PMBOK® Guide – Sixth Edition now contains detailed information about agile; while the Agile Practice Guide, created in partnership with Agile Alliance®, serves as a bridge to connect waterfall and agile. Together they are a powerful tool for project managers. The PMBOK® Guide – Sixth Edition – PMI's flagship publication has been updated to reflect the latest good practices in project management. New to the Sixth Edition, each knowledge area will contain a section entitled Approaches for Agile, Iterative and Adaptive Environments, describing how these practices integrate in project settings. It will also contain more emphasis on strategic and business knowledge—including discussion of project management business documents—and information on the PMI Talent Triangle™ and the essential skills for success in today's market. Agile Practice Guide has been developed as a resource to understand, evaluate, and use agile and hybrid agile approaches. This practice guide provides guidance on when, where, and how to apply agile approaches and provides practical tools for practitioners and organizations wanting to increase agility. This practice guide is aligned with other PMI standards, including A Guide to the Project Management Body of Knowledge (PMBOK® Guide) – Sixth Edition, and was developed as the result of collaboration between the Project Management Institute and the Agile Alliance.

How do designers get ideas? Many spend their time searching for clever combinations of forms, fonts, and colors inside the design annuals and monographs of other designers' work.

For those looking to challenge the cut-and-paste mentality there are few resources that are both informative and inspirational. In *Graphic Design: The New Basics*, Ellen Lupton, best-selling author of such books as *Thinking with Type* and *Design It Yourself*, and design educator Jennifer Cole Phillips refocus design instruction on the study of the fundamentals of form in a critical, rigorous way informed by contemporary media, theory, and software systems. Conversant in contemporary theory and architectural history, Stan Allen argues that concepts in architecture are not imported from other disciplines, but emerge through the materials and procedures of architectural practice itself. Drawing on his own experience as a working architect, he examines the ways in which the tools available to the architect affect the design and production of buildings. This second edition includes revised essays together with previously unpublished work. Allen's seminal piece on *Field Conditions* is included in this reworked, revised and redesigned volume. A compelling read for student and practitioner alike. The *Source Books in Architecture* series documents the work of the Herbert Baumer Distinguished Visiting Professors at the Austin E. Knowlton School of Architecture. While previous books have addressed a single project of the Baumer Professor, this one has a slightly different focus. Stan Allen was the Baumer Professor at the school in 2012-13, and this book documents projects that were discussed during Allen's seminar as well as the theoretical position that Allen began to articulate with *Field Conditions* in 1996. Twenty years is a remarkable duration for a contemporary architectural position to hold the interest of its author and audience. Since the publication of *Field Conditions*, advances in digital technology have led to an exhaustive range of experimentation, refinement, and finally, factions in design style and strategy. Expressive form and gymnastic geometry are now available to even novice

designers, and have worked their way into popular culture and onto the wish lists of public and private clients. While digital advances have expanded architecture's lexicon, their seductive potential has sometimes trumped architecture's performance beyond the iconographic. Fatigue and forgetfulness, in such cases, displace architecture's broader cultural potential. It is noteworthy that Allen's project has progressed in parallel with and taken advantage of digital developments. However, the digital project may have run its course as an independent trajectory. This book provides evidence that Allen's project endures through new realizations and applications.

The colorful charts, graphs, and maps presented at the 1900 Paris Exposition by famed sociologist and black rights activist W. E. B. Du Bois offered a view into the lives of black Americans, conveying a literal and figurative representation of "the color line." From advances in education to the lingering effects of slavery, these prophetic infographics —beautiful in design and powerful in content—make visible a wide spectrum of black experience. W. E. B. Du Bois's *Data Portraits* collects the complete set of graphics in full color for the first time, making their insights and innovations available to a contemporary imagination. As Maria Popova wrote, these data portraits shaped how "Du Bois himself thought about sociology, informing the ideas with which he set the world ablaze three years later in *The Souls of Black Folk*."

With *Points + Lines: Diagrams and Projects for the City*, influential architect and theorist Stan Allen proposes a series of new architectural strategies for the contemporary city. Organized in the form of a user's manual, it juxtaposes texts outlining Allen's theoretical

principles with his projects, in which those principles are demonstrated in practice. Finding inspiration in the artistic minimalism and postminimalism of the 1970s, Allen uses the city's vitality and infrastructure to support projects that reflect and augment the urban experience. Included in this volume are three essays by Allen along with six projects, including his designs for the Cardiff Bay Opera House in Wales, the Museo del Prado in Madrid, the Souks of Beirut, the Logistical Activities Zone of Barcelona, the Korean-American Museum of Art in Los Angeles, and the National Diet Library in Kansai Kan, Japan. Allen's work is introduced by K. Michael Hays; R.E. Somol provides an afterword. In addition, the book contains a complete, illustrated chronology of Allen's projects.

The software development ecosystem is constantly changing, providing a constant stream of new tools, frameworks, techniques, and paradigms. Over the past few years, incremental developments in core engineering practices for software development have created the foundations for rethinking how architecture changes over time, along with ways to protect important architectural characteristics as it evolves. This practical guide ties those parts together with a new way to think about architecture and time.

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to

efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Intelligent readers who want to build their own embedded computer systems-- installed in everything from cell phones to cars to handheld organizers to refrigerators-- will find this book to be the most in-depth, practical, and up-to-date guide on the market.

Designing Embedded Hardware carefully steers between the practical and philosophical aspects, so developers can both create their own devices and gadgets and customize and extend off-the-shelf systems. There are hundreds of books to choose from if you need to learn programming, but only a few are available if you want to learn to create hardware. Designing Embedded Hardware provides software and hardware engineers with no prior experience in embedded systems with the necessary conceptual and design building blocks to understand the architectures of embedded

systems. Written to provide the depth of coverage and real-world examples developers need, *Designing Embedded Hardware* also provides a road-map to the pitfalls and traps to avoid in designing embedded systems. *Designing Embedded Hardware* covers such essential topics as: The principles of developing computer hardware Core hardware designs Assembly language concepts Parallel I/O Analog-digital conversion Timers (internal and external) UART Serial Peripheral Interface Inter-Integrated Circuit Bus Controller Area Network (CAN) Data Converter Interface (DCI) Low-power operation This invaluable and eminently useful book gives you the practical tools and skills to develop, build, and program your own application-specific computers.

This is the eagerly-anticipated revision to one of the seminal books in the field of software architecture which clearly defines and explains the topic.

The Activity Book That Makes Kids Wild About Nature Nature books for kids should get them excited about heading out into the great outdoors. This one encourages them to track, explore, discover and create. Unlike some nature books for kids, the *Exploring Nature Activity Book for Kids*, is filled with hands-on educational outdoor activities--like crafting bird feeders out of fruit, pressing flowers, creating sundials and so much more.

The *Exploring Nature Activity Book for Kids* includes: 50 AMAZING OUTDOOR PROJECTS--See how nature books for kids can inspire a lifetime of curiosity by using play to encourage natural observation. ACTIVITIES FOR EVERYONE, EVERYWHERE--Discover fun and educational outdoor activities designed for a variety

of seasons, regions, and age ranges. WILD COLORS--Color illustrations bring activities to life, provide further instruction, and get kids excited about going outside. The hands-on, get-dirty approach makes this one of the best nature books for kids and shows them what makes the great outdoors great.

The sole survivor on a desperate, last-chance mission to save both humanity and the earth, Ryland Grace is hurtled into the depths of space when he must conquer an extinction-level threat to our species.

Thoroughly rewritten for today's web environment, this bestselling book offers a fresh look at a fundamental topic of web site development: navigation design. Amid all the changes to the Web in the past decade, and all the hype about Web 2.0 and various "rich" interactive technologies, the basic problems of creating a good web navigation system remain. Designing Web Navigation demonstrates that good navigation is not about technology-it's about the ways people find information, and how you guide them. Ideal for beginning to intermediate web designers, managers, other non-designers, and web development pros looking for another perspective, Designing Web Navigation offers basic design principles, development techniques and practical advice, with real-world examples and essential concepts seamlessly folded in. How does your web site serve your business objectives? How does it meet a user's needs? You'll learn that navigation design touches most other aspects of web site development. This book: Provides the foundations of web navigation and offers a framework for navigation

design Paints a broad picture of web navigation and basic human information behavior Demonstrates how navigation reflects brand and affects site credibility Helps you understand the problem you're trying to solve before you set out to design Thoroughly reviews the mechanisms and different types of navigation Explores "information scent" and "information shape" Explains "persuasive" architecture and other design concepts Covers special contexts, such as navigation design for web applications Includes an entire chapter on tagging While Designing Web Navigation focuses on creating navigation systems for large, information-rich sites serving a business purpose, the principles and techniques in the book also apply to small sites. Well researched and cited, this book serves as an excellent reference on the topic, as well as a superb teaching guide. Each chapter ends with suggested reading and a set of questions that offer exercises for experiencing the concepts in action.

Along with plan and elevation, section is one of the essential representational techniques of architectural design; among architects and educators, debates about a project's section are common and often intense. Until now, however, there has been no framework to describe or evaluate it. Manual of Section fills this void. Paul Lewis, Marc Tsurumaki, and David J. Lewis have developed seven categories of section, revealed in structures ranging from simple one-story buildings to complex structures featuring stacked forms, fantastical shapes, internal holes, inclines, sheared planes, nested forms, or combinations thereof. To illustrate these categories, the authors construct

sixty-three intricately detailed cross-section perspective drawings of built projects—many of the most significant structures in international architecture from the last one hundred years—based on extensive archival research. Manual of Section also includes smart and accessible essays on the history and uses of section.

Developed from celebrated Harvard statistics lectures, Introduction to Probability provides essential language and tools for understanding statistics, randomness, and uncertainty. The book explores a wide variety of applications and examples, ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo (MCMC). Additional

The highly anticipated sequel to the instant New York Times bestseller, *A Good Girl's Guide to Murder!* More dark secrets are exposed in this addictive, true-crime fueled mystery. Pip is not a detective anymore. With the help of Ravi Singh, she released a true-crime podcast about the murder case they solved together last year. The podcast has gone viral, yet Pip insists her investigating days are behind her. But she will have to break that promise when someone she knows goes missing. Jamie Reynolds has disappeared, on the very same night the town hosted a memorial for the sixth-year anniversary of the deaths of Andie Bell and Sal Singh. The police won't do anything about it. And if they won't look for Jamie then Pip will, uncovering more of her town's dark secrets along the way... and this time everyone is listening. But will she find him before it's too late?

Albert Pope's 1996 seminal book *Ladders* is now available in a second edition. Considered a classic in the field of urbanism and one of our most requested out of print titles, Pope's provocative study of five post-war American cities examines the forces--including demographic upheavals, market expansions, and technological developments--that precipitated a change from the open system of the pre-war urban grid to the fragmented and closed spaces of suburban cul-de-sacs, expressways, and office parks. Through an incisive series of diagrams and photographs, Pope reveals the concepts, theories, and rules that have guided their organizational evolution into post architectural spaces whose character is shaped more by the effects of immense urban spaces and infrastructure than built forms. A new preface by architect and educator Pier Vittorio Aureli situates the book in the context of contemporary urban thinking and makes a compelling argument for it's continued relevance as springboard for the investigation of our contemporary cities.

Infrastructural Optimism investigates a new kind of twenty-first-century infrastructure, one that encourages a broader understanding of the interdependence of resources and agencies, recognizes a rightfully accelerated need for equitable access and distribution, and prioritizes rising environmental diligence across the design disciplines. Bringing together urban history, case studies, and speculative design propositions, the book explores and defines infrastructure as the basis for a new form of urbanism, emerging from the intersection of architecture, landscape architecture, and urban design. In

defining this new infrastructure, the book introduces new dynamic and holistic performance metrics focused on "measuring what matters" over growth for the sake of growth and twelve criteria that define next generation infrastructure. By shifting the focus of infrastructure – our largest public realm – to environmental symbiosis and quality of life for all, design becomes a catalytic component in creating a more beautiful, productive, and optimistic future with Infrastructural Urbanism as its driver.

Infrastructural Optimism will be invaluable to design, non-profit and agency professionals, and faculty and students in the fields of architecture, landscape architecture, and urban design, working in partnership with engineers, hydrologists, ecologists, urban planners, community members, and others who shape the built environment through the expanded field of infrastructure.

Integral Urbanism is an ambitious and forward-looking theory of urbanism that offers a new model of urban life. Nan Ellin's model stands as an antidote to the pervasive problems engendered by modern and postmodern urban planning and architecture: sprawl, anomie, a pervasive culture - and architecture - of fear in cities, and a disregard for environmental issues. Instead of the reactive and escapist tendencies characterizing so much contemporary urban development, Ellin champions an 'integral' approach that reverses the fragmentation of our landscapes and lives through proactive design solutions.

Draping - the art of using calico to design directly on a dress form - is an essential skill

for fashion students. Covering the most basic to more advanced techniques, this series of master classes provides a complete course. Projects include dresses, skirts, trousers and jackets, highlighting key fashion garments such as Audrey Hepburn's dress from Breakfast at Tiffany's. Starting with the basics of preparing the dress form and fabric, the book advances through pinning, trimming and clipping, and creating shape using darts and tucks, to adding volume using pleats and gathers, and handling complex curves. Advanced skills include how to use support elements such as shoulder pads, under layers and petticoats, and how to handle bias draping. Each exercise and project throughout the book is explained with step-by-step photographs and line drawings that bring to life the art of creating womenswear in three dimensions.

The classic work on the evaluation of city form. What does the city's form actually mean to the people who live there? What can the city planner do to make the city's image more vivid and memorable to the city dweller? To answer these questions, Mr. Lynch, supported by studies of Los Angeles, Boston, and Jersey City, formulates a new criterion--imageability--and shows its potential value as a guide for the building and rebuilding of cities. The wide scope of this study leads to an original and vital method for the evaluation of city form. The architect, the planner, and certainly the city dweller will all want to read this book.

New technologies, new design techniques and a demand for enhanced environmental performance have provoked a re-thinking of architecture's relationship to the ground. Some of today's most innovative buildings no longer occupy a given site but, instead, construct the site itself. Landform Building sets out to examine the many manifestations of landscape and

ecology in contemporary architectural practice: not as a cross-disciplinary phenomenon (architects working in the landscape) but as new design techniques, new formal strategies and technical problems within architecture.

“We finally have the definitive treatise on PyTorch! It covers the basics and abstractions in great detail. I hope this book becomes your extended reference document.” —Soumith Chintala, co-creator of PyTorch

Key Features Written by PyTorch’s creator and key contributors

- Develop deep learning models in a familiar Pythonic way
- Use PyTorch to build an image classifier for cancer detection
- Diagnose problems with your neural network and improve training with data augmentation

Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About The Book Every other day we hear about new ways to put deep learning to good use: improved medical imaging, accurate credit card fraud detection, long range weather forecasting, and more. PyTorch puts these superpowers in your hands. Instantly familiar to anyone who knows Python data tools like NumPy and Scikit-learn, PyTorch simplifies deep learning without sacrificing advanced features. It’s great for building quick models, and it scales smoothly from laptop to enterprise. Deep Learning with PyTorch teaches you to create deep learning and neural network systems with PyTorch. This practical book gets you to work right away building a tumor image classifier from scratch. After covering the basics, you’ll learn best practices for the entire deep learning pipeline, tackling advanced projects as your PyTorch skills become more sophisticated. All code samples are easy to explore in downloadable Jupyter notebooks.

What You Will Learn

- Understanding deep learning data structures such as tensors and neural networks
- Best practices for the PyTorch Tensor API, loading data in Python, and visualizing results

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Implementing modules and loss functions Utilizing pretrained models from PyTorch Hub
Methods for training networks with limited inputs Sifting through unreliable results to diagnose and fix problems in your neural network Improve your results with augmented data, better model architecture, and fine tuning This Book Is Written For For Python programmers with an interest in machine learning. No experience with PyTorch or other deep learning frameworks is required. About The Authors Eli Stevens has worked in Silicon Valley for the past 15 years as a software engineer, and the past 7 years as Chief Technical Officer of a startup making medical device software. Luca Antiga is co-founder and CEO of an AI engineering company located in Bergamo, Italy, and a regular contributor to PyTorch. Thomas Viehmann is a Machine Learning and PyTorch speciality trainer and consultant based in Munich, Germany and a PyTorch core developer. Table of Contents PART 1 - CORE PYTORCH 1 Introducing deep learning and the PyTorch Library 2 Pretrained networks 3 It starts with a tensor 4 Real-world data representation using tensors 5 The mechanics of learning 6 Using a neural network to fit the data 7 Telling birds from airplanes: Learning from images 8 Using convolutions to generalize PART 2 - LEARNING FROM IMAGES IN THE REAL WORLD: EARLY DETECTION OF LUNG CANCER 9 Using PyTorch to fight cancer 10 Combining data sources into a unified dataset 11 Training a classification model to detect suspected tumors 12 Improving training with metrics and augmentation 13 Using segmentation to find suspected nodules 14 End-to-end nodule analysis, and where to go next PART 3 - DEPLOYMENT 15 Deploying to production

• New York Times bestseller • The 100 most substantive solutions to reverse global warming, based on meticulous research by leading scientists and policymakers around the world “At this

point in time, the Drawdown book is exactly what is needed; a credible, conservative solution-by-solution narrative that we can do it. Reading it is an effective inoculation against the widespread perception of doom that humanity cannot and will not solve the climate crisis. Reported by-effects include increased determination and a sense of grounded hope.” —Per Espen Stoknes, Author, *What We Think About When We Try Not To Think About Global Warming* “There’s been no real way for ordinary people to get an understanding of what they can do and what impact it can have. There remains no single, comprehensive, reliable compendium of carbon-reduction solutions across sectors. At least until now. . . . The public is hungry for this kind of practical wisdom.” —David Roberts, *Vox* “This is the ideal environmental sciences textbook—only it is too interesting and inspiring to be called a textbook.” —Peter Kareiva, Director of the Institute of the Environment and Sustainability, UCLA In the face of widespread fear and apathy, an international coalition of researchers, professionals, and scientists have come together to offer a set of realistic and bold solutions to climate change. One hundred techniques and practices are described here—some are well known; some you may have never heard of. They range from clean energy to educating girls in lower-income countries to land use practices that pull carbon out of the air. The solutions exist, are economically viable, and communities throughout the world are currently enacting them with skill and determination. If deployed collectively on a global scale over the next thirty years, they represent a credible path forward, not just to slow the earth’s warming but to reach drawdown, that point in time when greenhouse gases in the atmosphere peak and begin to decline. These measures promise cascading benefits to human health, security, prosperity, and well-being—giving us every reason to see this planetary crisis as an opportunity to create a just and

livable world.

Updated concepts and tools to set up project plans, schedule work, monitor progress-and consistently achieve desired project results. In today's time-based and cost-conscious global business environment, tight project deadlines and stringent expectations are the norm. This classic book provides businesspeople with an excellent introduction to project management, supplying sound, basic information (along with updated tools and techniques) to understand and master the complexities and nuances of project management. Clear and down-to-earth, this step-by-step guide explains how to effectively spearhead every stage of a project-from developing the goals and objectives to managing the project team-and make project management work in any company. This updated second edition includes: * New material on the Project Management Body of Knowledge (PMBOK) * Do's and don'ts of implementing scheduling software* Coverage of the PMP certification offered by the Project Management Institute* Updated information on developing problem statements and mission statements* Techniques for implementing today's project management technologies in any organization-in any industry.

Ten Strategies of a World-Class Cyber Security Operations Center conveys MITRE's accumulated expertise on enterprise-grade computer network defense. It covers ten key qualities of leading Cyber Security Operations Centers (CSOCs), ranging from their structure and organization, to processes that best enable smooth operations, to approaches that extract maximum value from key CSOC technology investments. This book offers perspective and context for key decision points in structuring a CSOC, such as what capabilities to offer, how to architect large-scale data collection and analysis, and how to prepare the CSOC team for

agile, threat-based response. If you manage, work in, or are standing up a CSOC, this book is for you. It is also available on MITRE's website, www.mitre.org.

Don't engineer by coincidence-design it like you mean it! Filled with practical techniques, *Design It!* is the perfect introduction to software architecture for programmers who are ready to grow their design skills. Lead your team as a software architect, ask the right stakeholders the right questions, explore design options, and help your team implement a system that promotes the right -ilities. Share your design decisions, facilitate collaborative design workshops that are fast, effective, and fun-and develop more awesome software! With dozens of design methods, examples, and practical know-how, *Design It!* shows you how to become a software architect. Walk through the core concepts every architect must know, discover how to apply them, and learn a variety of skills that will make you a better programmer, leader, and designer. Uncover the big ideas behind software architecture and gain confidence working on projects big and small. Plan, design, implement, and evaluate software architectures and collaborate with your team, stakeholders, and other architects. Identify the right stakeholders and understand their needs, dig for architecturally significant requirements, write amazing quality attribute scenarios, and make confident decisions. Choose technologies based on their architectural impact, facilitate architecture-centric design workshops, and evaluate architectures using lightweight, effective methods. Write lean architecture descriptions people love to read. Run an architecture design studio, implement the architecture you've designed, and grow your team's architectural knowledge. Good design requires good communication. Talk about your software architecture with stakeholders using whiteboards, documents, and code, and apply architecture-focused design methods in your day-to-day practice. Hands-on exercises, real-

world scenarios, and practical team-based decision-making tools will get everyone on board and give you the experience you need to become a confident software architect.

#1 NEW YORK TIMES BESTSELLER Our earliest experiences shape our lives far down the road, and *What Happened to You?* provides powerful scientific and emotional insights into the behavioral patterns so many of us struggle to understand. “Through this lens we can build a renewed sense of personal self-worth and ultimately recalibrate our responses to circumstances, situations, and relationships. It is, in other words, the key to reshaping our very lives.”—Oprah Winfrey This book is going to change the way you see your life. Have you ever wondered “Why did I do that?” or “Why can’t I just control my behavior?” Others may judge our reactions and think, “What’s wrong with that person?” When questioning our emotions, it’s easy to place the blame on ourselves; holding ourselves and those around us to an impossible standard. It’s time we started asking a different question. Through deeply personal conversations, Oprah Winfrey and renowned brain and trauma expert Dr. Bruce Perry offer a groundbreaking and profound shift from asking “What’s wrong with you?” to “What happened to you?” Here, Winfrey shares stories from her own past, understanding through experience the vulnerability that comes from facing trauma and adversity at a young age. In conversation throughout the book, she and Dr. Perry focus on understanding people, behavior, and ourselves. It’s a subtle but profound shift in our approach to trauma, and it’s one that allows us to understand our pasts in order to clear a path to our future—opening the door to resilience and healing in a proven, powerful way.

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