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Visual Explanations Images and Quantities, Evidence and Narrative This book describes design strategies - the proper arrangement in space and time of images, words, and numbers - for presenting information about motion, process, mechanism, cause and effect. Beautiful Evidence How seeing turns into showing, how empirical observations turn into explanation and evidence. How to produce and consume evidence presentations. A Guide to Forensic Testimony The Art and Practice of Presenting Testimony as an Expert Technical Witness *Addison-Wesley Professional* **A technical expert and a lawyer provide practical approaches for IT professionals who need to get up to speed on the role of an expert witness and how testimony works. Includes actual transcripts and case studies. Envisioning Information Escaoping flatland. Micro/Macro readings. Layering and separation. Small multiples. Color and information. Narratives of Space and time. Epilogue. Turning Numbers Into Knowledge Mastering the Art of Problem Solving** *Analytics Press* **"Mastering the art of problem solving takes more than proficiency with basic calculations; it requires understanding how people use information, recognizing the importance of ideology, learning the art of storytelling, and acknowledging the important distinction between facts and values. Intended for professors, managers, entrepreneurs, and students, this guide addresses these and other essential skills. With clear prose, quotations, and exercises for solving problems in the real world, this book serves as an ideal training manual for those who are new to or intimidated by quantitative analysis and an excellent refresher for those who have more experience but want to**

improve the quality of their data, the clarity of their graphics, and the cogency of their arguments." -- Publisher's description. Envisioning Information Seeing with Fresh Eyes Meaning, Space, Data, Truth The Routledge Handbook of Magazine Research The Future of the Magazine Form *Routledge* Scholarly engagement with the magazine form has, in the last two decades, produced a substantial amount of valuable research. Authored by leading academic authorities in the study of magazines, the chapters in The Routledge Handbook of Magazine Research not only create an architecture to organize and archive the developing field of magazine research, but also suggest new avenues of future investigation. Each of 33 chapters surveys the last 20 years of scholarship in its subject area, identifying the major research themes, theoretical developments and interpretive breakthroughs. Exploration of the digital challenges and opportunities which currently face the magazine world are woven throughout, offering readers a deeper understanding of the magazine form, as well as of the sociocultural realities it both mirrors and influences. The book includes six sections: -Methodologies and structures presents theories and models for magazine research in an evolving, global context. -Magazine publishing: the people and the work introduces the roles and practices of those involved in the editorial and business sides of magazine publishing. -Magazines as textual communication surveys the field of contemporary magazines across a range of theoretical perspectives, subjects, genre and format questions. -Magazines as visual communication explores cover design, photography, illustrations and interactivity. -Pedagogical and curricular perspectives offers insights on undergraduate and graduate teaching topics in magazine research. -The future of the magazine form speculates on the changing nature of magazine research via its environmental effects, audience, and transforming platforms. Research Methods in Library and Information Science, 7th Edition *ABC-CLIO* The seventh edition of this frequently adopted textbook features new or expanded sections on social justice research, data analysis software, scholarly identity research, social networking, data science, and data visualization, among other topics. It continues to include discipline experts' voices. The revised seventh edition of this popular text provides instruction and guidance for professionals and students in library and information science who want to conduct research and publish findings, as well as for practicing professionals who want a broad overview of the current literature. Providing a broad introduction to research design, the authors include principles, data collection techniques, and analyses of quantitative and qualitative methods, as well as advantages and limitations of each method and updated bibliographies. Chapters cover the scientific method, sampling, validity, reliability, and ethical concerns along with quantitative and qualitative methods. LIS students and professionals will consult this text not only for instruction on conducting research but also for guidance in critically reading and evaluating research publications, proposals, and reports. As in the previous edition, discipline experts

provide advice, tips, and strategies for completing research projects, dissertations, and theses; writing grants; overcoming writer's block; collaborating with colleagues; and working with outside consultants. Journal and book editors discuss how to publish and identify best practices and understudied topics, as well as what they look for in submissions. Features new or expanded sections on social justice research; virtual collaboration, data collection, and dissemination; scholarly communication; computer-assisted qualitative and quantitative data analysis; scholarly identity research and guidelines; data science; and visualization of quantitative and qualitative data Provides a broad and comprehensive overview and update, especially of research published over the past five years Highlights school, public, and academic research findings Relies on the coauthors' expertise in research design, securing grant funding, and using the latest technology and data analysis software A Handbook of Practicing Anthropology *John Wiley & Sons* An essential career-planning resource, A Handbook of Practicing Anthropology presents a comprehensive account of contemporary anthropological practice written primarily by anthropological practitioners Engagingly written and instructive accounts of practice by anthropological professionals working in corporations, governmental, entrepreneurial, and educational settings Provides essential guidance on applying anthropological principles on the job: what works well and what must be learned Emphasizes the value of collaboration, teamwork, and continuous learning as key elements to success in non-academic careers Highlights the range of successful career options for practitioners , describes significant sectors of professional activity, and discusses key issues, concerns, and controversies in the field Chapters examine key practice sectors such as freelancing, managing a consulting firm, working for government, non-profits, and corporations, and the domains of health, industry, education, international development, and the military Release 2.0: Issue 3 *"O'Reilly Media, Inc."* What makes the net great us also precisely what makes it so dangerous. The virtual world is becoming so similar to the real one that some think the overt laws, or at least agreed-upon rules, may be necessary for the Net to survive in its current open form. If the internet can be ruined by everything from criminals to overzealous politicians responding to those criminals, then how can it be saved? We explore this issue in Release 2.0: Issue 3. Other topics in this issue: Listening to Lawrence Lessig - The man who started it all considers hard, thinks hard, and worries hard - about what code and the law can do. Open APIs Aren't Open Source - Six lessons for developers From Audience to Producer - It may not be news to you, but it's news to someone. Ambiguity is a Feature, Not a Bug - A new way to think about code Data Analysis for Politics and Policy *Prentice Hall* Introduction to data analysis; Predictions and projections: some issues of research design; Two-variable linear regression; Multiple regression. D3.js: Cutting-edge Data Visualization *Packt Publishing Ltd* Turn your raw data into real knowledge by creating and deploying complex data visualizations with D3.js About This

Book Understand how to best represent your data by developing the right kind of visualization Explore the concepts of D3.js through examples that enable you to quickly create visualizations including charts, network diagrams, and maps Get practical examples of visualizations using real-world data sets that show you how to use D3.js to visualize and interact with information to glean its underlying meaning Who This Book Is For Whether you are new to data and data visualization, a seasoned data scientist, or a computer graphics specialist, this Learning Path will provide you with the skills you need to create web-based and interactive data visualizations. Some basic JavaScript knowledge is expected, but no prior experience with data visualization or D3 is required What You Will Learn Gain a solid understanding of the common D3 development idioms Find out how to write basic D3 code for servers using Node.js Install and use D3.js to create HTML elements within a document Create and style graphical elements such as circles, ellipses, rectangles, lines, paths, and text using SVG Turn your data into bar and scatter charts, and add margins, axes, labels, and legends Use D3.js generators to perform the magic of creating complex visualizations from data Add interactivity to your visualizations, including tool-tips, sorting, hover-to-highlight, and grouping and dragging of visuals Write, test, and distribute a D3-based charting package Make a real-time application with Node and D3 In Detail D3 has emerged as one of the leading platforms to develop beautiful, interactive visualizations over the web. We begin the course by setting up a strong foundation, then build on this foundation as we take you through the entire world of reimagining data using interactive, animated visualizations created in D3.js. In the first module, we cover the various features of D3.js to build a wide range of visualizations. We also focus on the entire process of representing data through visualizations. By the end of this module, you will be ready to use D3 to transform any data into a more engaging and sophisticated visualization. In the next module, you will learn to master the creation of graphical elements from data. Using practical examples provided, you will quickly get to grips with the features of D3.js and use this learning to create your own spectacular data visualizations with D3.js. Over the last leg of this course, you will get acquainted with how to integrate D3 with mapping libraries to provide reverse geocoding and interactive maps among many other advanced features of D3. This module culminates by showing you how to create enterprise-level dashboards to display real-time data. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Learning D3.js Data Visualization, Second Edition by Andrew H. Rininsland D3.js By Example by Michael Heydt Mastering D3.js by Pablo Navarro Castillo Style and approach This course provides a comprehensive explanation of how to leverage the power of D3.js to create powerful and creative visualizations through step-by-step instructions in the form of modules. Each module help you skill up a level in creating meaningful visualizations. Security Data Visualization Graphical Techniques

for Network Analysis *No Starch Press* **An introduction to a range of cyber security issues explains how to utilize graphical approaches to displaying and understanding computer security data, such as network traffic, server logs, and executable files, offering guidelines for identifying a network attack, how to assess a system for vulnerabilities with Afterglow and RUMINT visualization software, and how to protect a system from additional attacks. Original. (Intermediate) Modern IDL A Guide to IDL Programming** *Michael Galloy* **Modern IDL is an opinionated guide to using IDL, including information about recent versions of IDL, advanced topics, and best practices. Modern IDL is also a useful reference guide for both beginners and advanced users, collecting tables and lists of items that are scattered through the online help. Successful Proposal Strategies for Small Businesses: : Using Knowledge Management to Win Government, Private-Sector, and International Contracts, Sixth Edition** *Artech House* **Here's your one-stop-shop for winning new business! the new, Sixth Edition of this perennial bestseller updates and expands all previous editions, making this volume the most exhaustive and definitive proposal strategy resource. Directly applicable for businesses of all sizes, Successful Proposal Strategies provides extensive and important context, field-proven approaches, and in-depth techniques for business success with the Federal Government, the largest buyer of services and products in the world. This popular book and its companion CD-ROM are highly accessible, self-contained desktop references developed to be informative, highly practical, and easy to use. Small companies with a viable service or product learn how to gain and keep a customer's attention, even when working with only a few employees. Offering a greatly expanded linkage of proposals to technical processes and directions, the Sixth Edition includes a wealth of new material, adding important chapters on cost building and price volume, the criticality of business culture and investments in proposal success, the proposal solution development process, and developing key conceptual graphics. CD-ROM Included! Features useful proposal templates in Adobe Acrobat, platform-independent format; HTML pointers to Small Business Web Sites; a comprehensive, fully searchable listing Proposal and Contract Acronyms; and a sample architecture for a knowledge base or proposal library. Data Visualization Handbook** *Aalto korkeakoulusäätiö* **The data visualization handbook is a practical guide to creating compelling graphics to explain or explore data. It is primarily aimed for designers, journalists, researchers, analysts, and other professionals who want to learn the basics of visualization, but also includes plenty of material for people with intermediate level visualization skills. Air University Library Index to Military Periodicals Persuading with Data A Guide to Designing, Delivering, and Defending Your Data** *MIT Press* **An integrated introduction to data visualization, strategic communication, and delivery best practices. Persuading with Data provides an integrated instructional guide to data visualization, strategic communication, and delivery best practices. Most books on data visualization focus on creating**

good graphs. This is the first book that combines both explanatory visualization and communication strategy, showing how to use visuals to create effective communications that convince an audience to accept and act on the data. In four parts that proceed from micro to macro, the book explains how our brains make sense of graphs; how to design effective graphs and slides that support your ideas; how to organize those ideas into a compelling presentation; and how to deliver and defend data to an audience. Persuading with Data is for anyone who has to explain analytical results to others. It synthesizes a wide range of skills needed by modern data professionals, providing a complete toolkit for creating effective business communications. Readers will learn how to simplify in order to amplify, how to communicate data analysis, how to prepare for audience resistance, and much more. The book integrates practitioner and academic perspectives with real-world examples from a variety of industries, organizations, and disciplines. It is accessible to a wide range of readers—from undergraduates to mid-career and executive-level professionals—and has been tested in settings that include academic classes and workplace training sessions. Handbook of Writing for the Mathematical Sciences, Third Edition *SIAM* Handbook of Writing for the Mathematical Sciences provides advice on all aspects of scientific writing, with a particular focus on writing mathematics. Its readable style and handy format, coupled with an extensive bibliography and comprehensive index, make it useful for everyone from undergraduates to seasoned professionals. This third edition revises, updates, and expands the best-selling second edition to reflect modern writing and publishing practices and builds on the author's extensive experience in writing and speaking about mathematics. Some of its key features include coverage of fundamentals of writing, including English usage, revising a draft, and writing when your first language is not English; thorough treatment of mathematical writing, including how to choose notation, how to choose between words and symbols, and how to format equations; and many tips for exploiting LaTeX and BibTeX. Higham also provides advice on how to write and publish a paper, covering the entire publication process, and includes anecdotes, quotes, and unusual facts that enliven the presentation. The new edition has been reorganized to make the book easier to use for reference; treats modern developments in publishing such as open access, DOIs, and ORCID; and contains more on poster design, including e-posters and the poster blitz. The new edition also includes five new chapters on the following topics: · workflow covering text editors, markup languages, version control, and much more; · the principles of indexing and how to prepare an index in LaTeX; · reviewing a paper, book proposal, or book; · writing a book, including advice on choosing a publisher and LaTeX tips particular to books; and · writing a blog post. Mastering D3.js *Packt Publishing Ltd* If you are a software developer working with data visualizations and want to build complex data visualizations, this book is for you. Basic knowledge of D3 framework is expected. With real-

world examples, you will learn how to structure your applications to create enterprise-level charts and interactive dashboards. Atlas of Knowledge Anyone Can Map *MIT Press* The power of mapping: principles for visualizing knowledge, illustrated by many stunning large-scale, full-color maps. Maps of physical spaces locate us in the world and help us navigate unfamiliar routes. Maps of topical spaces help us visualize the extent and structure of our collective knowledge; they reveal bursts of activity, pathways of ideas, and borders that beg to be crossed. This book, from the author of Atlas of Science, describes the power of topical maps, providing readers with principles for visualizing knowledge and offering as examples forty large-scale and more than 100 small-scale full-color maps. Today, data literacy is becoming as important as language literacy. Well-designed visualizations can rescue us from a sea of data, helping us to make sense of information, connect ideas, and make better decisions in real time. In Atlas of Knowledge, leading visualization expert Katy Börner makes the case for a systems science approach to science and technology studies and explains different types and levels of analysis. Drawing on fifteen years of teaching and tool development, she introduces a theoretical framework meant to guide readers through user and task analysis; data preparation, analysis, and visualization; visualization deployment; and the interpretation of science maps. To exemplify the framework, the Atlas features striking and enlightening new maps from the popular "Places & Spaces: Mapping Science" exhibit that range from "Key Events in the Development of the Video Tape Recorder" to "Mobile Landscapes: Location Data from Cell Phones for Urban Analysis" to "Literary Empires: Mapping Temporal and Spatial Settings of Victorian Poetry" to "Seeing Standards: A Visualization of the Metadata Universe." She also discusses the possible effect of science maps on the practice of science. Graphic Inquiry *ABC-CLIO* "This full-color book provides a practical approach to incorporating graphic inquiry across the curriculum for school library media specialists, technology coordinators, and classroom teachers. We live in a high-tech, multimedia world, and it's proven that many young people respond best to graphic communication, yet most of our classroom activities still emphasize print communication. Even inquiry-based approaches to learning often stress writing lists of questions, reading texts, and writing papers. Thepotential of graphic inquiry in teaching and learning warrants exploration. It's new. It's graphic. And it is the first of its kind. Designed to bridge theory and actual practice, Graphic Inquiry has applications for new and practicing educators and librarians. This visually rich book provides numerous, standards-based inquiry activities and projects that incorporate traditional materials as well as emerging social and collaborative technologies"-- The Theory and Criticism of Virtual Texts An Annotated Bibliography, 1988-1999 *Greenwood Publishing Group* Virtual texts have emerged within the realm of the Internet as the predominant mode of global communication. But despite the pervasiveness of the Internet in nearly all aspects of contemporary life, no single resource has cataloged the ways in which

numerous disciplines have investigated and critiqued virtual texts. This bibliography provides more than 1500 annotated entries for books, articles, dissertations, and electronic resources on virtual texts published between 1988 and 1999. It explores such topics as the history and development of virtual communication, visualization studies, discourse studies, information design, computer-mediated communication and education, and privacy and intellectual property issues. Entries are arranged alphabetically within topical chapters, and extensive indexes facilitate easy access. **Facing Catastrophe Environmental Action for a Post-Katrina World** *Harvard University Press* **As Hurricane Katrina vividly revealed, disaster policy in the United States is broken and needs reform. What can we learn from past disastersÑstorms, floods, earthquakes, tsunamis, landslides, and wildfiresÑabout preparing for and responding to future catastrophes? How can these lessons be applied in a future threatened by climate change? In this bold contribution to environmental law, Robert Verchick argues for a new perspective on disaster law that is based on the principles of environmental protection. His prescription boils down to three simple commands: Go Green, Be Fair, and Keep Safe. ÒGoing greenÓ means minimizing exposure to hazards by preserving natural buffers and integrating those buffers into artificial systems like levees or seawalls. ÒBeing fairÓ means looking after public health, safety, and the environment without increasing personal and social vulnerabilities. ÒKeeping safeÓ means a more cautionary approach when confronting disaster risks. Verchick argues that government must assume a stronger regulatory role in managing natural infrastructure, distributional fairness, and public risk. He proposes changes to the federal statutes governing environmental impact assessments, wetlands development, air emissions, and flood control, among others. Making a strong case for more transparent governmental decision-making, Verchick offers a new vision of disaster law for the next generation. Raising the Alarm An Examination of Innovation and Philosophical Denial** *Springer Science & Business Media* **As the foundation of our modern world, innovation has generated a seemingly endless ocean of new products, new processes, new thoughts, and new ways of doing things. Every day, we enhance our innovation and its effects – and we advance, accomplish and constantly seek even more! Generally, we tend to live well based on our innovation outputs. This suggests that we think we know what we are doing, and that we know where we are headed. We do know what we're doing, don't we? Most would say: yes, we do; indeed, we are inclined to be certain of it. But: can we be certain about what we know about innovation? To address this question, we search for evidence of any useful outputs of the work of philosophy. Such outputs should help us better understand if we can, indeed, be certain about what we do, and where we are going. Is there any evidence of this? Alas! – philosophy is nowhere to be found! As a tool of rigorous reflection and understanding, even where some of the most exciting and forward-looking innovation enterprise in science, engineering and organizational**

structuring takes place, philosophy seems to have vanished – if it was ever there in the first place. Today, this seems somehow normal, and quite all right. But is it? Of course, we are aware that our history of philosophy illuminates the earlier pathways we once followed to achieve our modernity, and that is fine; but, where is philosophy and its work today? Where has philosophy gone? In this book we explore these questions, and more: why is philosophy vanishing, or even entirely absent from our world today? What has happened? If, at one time, philosophy was so very important, why would it no longer be much in evidence, if it is there at all? Where is the work of philosophy today as we push forward with innovation in our astonishing, leading-edge realms? Do we really understand what we are doing? Do we have any idea where we are going? And, most chillingly, regardless of the answers – does it matter? The claim is made in this book that the disappearance of philosophy does matter, and alarm bells ought to be ringing. Why? Because the work of philosophy, work we seem to have forgotten, is essential for us to know where we are going. If we are truly serious about surviving and thriving, especially by being so innovative in so many spectacular and challenging ways, we cannot afford to have philosophy and its works disappear and then be forgotten. Said plainly, we cannot deny and then lose the maps and compass of philosophy applied to the challenges of today and tomorrow. If we do, we lose any reason for any journey, anywhere. And, more broadly, we are in danger of losing reason generally. To continue denying philosophy – and then, in the end, to deny that very denial – is a move with no hope of benefit. But, the lack of evidence for the work of philosophy indicates that move is underway. We are destroying any useful link between innovation and philosophy. In so doing, we are seriously reducing the value of innovation (no matter how wonderful we think it might be) while blindly forgetting the critical importance of philosophy and its work. This move will guarantee that the path to our future will be fraught with unnecessary hardship and difficulty, and then, if it is permanent, will deal a fatal blow. If we truly wish to thrive and persevere, we are compelled to avoid the fatal error of philosophical denial. To do so, we must rediscover, revitalize and apply anew the rigorous work of philosophy to innovation in our modern era. Surface Computing and Collaborative Analysis Work *Springer Nature* **Large surface computing devices (wall-mounted or tabletop) with touch interfaces and their application to collaborative data analysis, an increasingly important and prevalent activity, is the primary topic of this book. Our goals are to outline the fundamentals of surface computing (a still maturing technology), review relevant work on collaborative data analysis, describe frameworks for understanding collaborative processes, and provide a better understanding of the opportunities for research and development. We describe surfaces as display technologies with which people can interact directly, and emphasize how interaction design changes when designing for large surfaces. We review efforts to use large displays, surfaces or mixed display environments to enable collaborative analytic**

activity. Collaborative analysis is important in many domains, but to provide concrete examples and a specific focus, we frequently consider analysis work in the security domain, and in particular the challenges security personnel face in securing networks from attackers, and intelligence analysts encounter when analyzing intelligence data. Both of these activities are becoming increasingly collaborative endeavors, and there are huge opportunities for improving collaboration by leveraging surface computing. This work highlights for interaction designers and software developers the particular challenges and opportunities presented by interaction with surfaces. We have reviewed hundreds of recent research papers, and report on advancements in the fields of surface-enabled collaborative analytic work, interactive techniques for surface technologies, and useful theory that can provide direction to interaction design work. We also offer insight into issues that arise when developing applications for multi-touch surfaces derived from our own experiences creating collaborative applications. We present these insights at a level appropriate for all members of the software design and development team. Table of Contents: List of Figures / Acknowledgments / Figure Credits / Purpose and Direction / Surface Technologies and Collaborative Analysis Systems / Interacting with Surface Technologies / Collaborative Work Enabled by Surfaces / The Theory and the Design of Surface Applications / The Development of Surface Applications / Concluding Comments / Bibliography / Authors' Biographies Japanese Mandalas Representations of Sacred Geography *University of Hawaii Press* This text presents a study of Japanese mandalas, interpreting them as sanctified realms where identification between the human and sacred occurs. The author investigates 8th to 7th century BC paintings from three traditions - esoteric Buddhism, pure land Buddhism and the Kami-worshipping (Shinto) tradition. The Technical Image A History of Styles in Scientific Imagery *University of Chicago Press* In science and technology, the images used to depict ideas, data, and reactions can be as striking and explosive as the concepts and processes they embody—both works of art and generative forces in their own right. Drawing on a close dialogue between the histories of art, science, and technology, The Technical Image explores these images not as mere illustrations or examples, but as productive agents and distinctive, multilayered elements of the process of generating knowledge. Using beautifully reproduced visuals, this book not only reveals how scientific images play a constructive role in shaping the findings and insights they illustrate, but also—however mechanical or detached from individual researchers' choices their appearances may be—how they come to embody the styles of a period, a mindset, a research collective, or a device. Opening with a set of key questions about artistic representation in science, technology, and medicine, The Technical Image then investigates historical case studies focusing on specific images, such as James Watson's models of genes, drawings of Darwin's finches, and images of early modern musical automata. These case studies in turn are used to illustrate broad

themes ranging from "Digital Images" to "Objectivity and Evidence" and to define and elaborate upon fundamental terms in the field. Taken as a whole, this collection will provide analytical tools for the interpretation and application of scientific and technological imagery. Data Visualisation with R 111 Examples *Springer Nature* This book introduces readers to the fundamentals of creating presentation graphics using R, based on 111 detailed and complete scripts. It shows how bar and column charts, population pyramids, Lorenz curves, box plots, scatter plots, time series, radial polygons, Gantt charts, heat maps, bump charts, mosaic and balloon charts, and a series of different thematic map types can be created using R's Base Graphics System. Every example uses real data and includes step-by-step explanations of the figures and their programming. This second edition contains additional examples for cartograms, chord-diagrams and networks, and interactive visualizations with Javascript. The open source software R is an established standard and a powerful tool for various visualizing applications, integrating nearly all technologies relevant for data visualization. The basic software, enhanced by more than 14000 extension packs currently freely available, is intensively used by organizations including Google, Facebook and the CIA. The book serves as a comprehensive reference guide to a broad variety of applications in various fields. This book is intended for all kinds of R users, ranging from experts, for whom especially the example codes are particularly useful, to beginners, who will find the finished graphics most helpful in learning what R can actually deliver. Read Me First! A Style Guide for the Computer Industry *Prentice Hall Professional* bull; The must-have reference for every technical writer, editor, and documentation manager bull; Provides all the information you need to document hardware, software, or other computer products bull; Written by award-winning documentation experts at Sun Technical Publications, Read Me First! is the most comprehensive guide to creating documentation that is clear, consistent, and easy to understand Artificial Communication How Algorithms Produce Social Intelligence *MIT Press* A proposal that we think about digital technologies such as machine learning not in terms of artificial intelligence but as artificial communication. Algorithms that work with deep learning and big data are getting so much better at doing so many things that it makes us uncomfortable. How can a device know what our favorite songs are, or what we should write in an email? Have machines become too smart? In Artificial Communication, Elena Esposito argues that drawing this sort of analogy between algorithms and human intelligence is misleading. If machines contribute to social intelligence, it will not be because they have learned how to think like us but because we have learned how to communicate with them. Esposito proposes that we think of "smart" machines not in terms of artificial intelligence but in terms of artificial communication. To do this, we need a concept of communication that can take into account the possibility that a communication partner may be not a human being but an algorithm—which is not random and is completely

controlled, although not by the processes of the human mind. Esposito investigates this by examining the use of algorithms in different areas of social life. She explores the proliferation of lists (and lists of lists) online, explaining that the web works on the basis of lists to produce further lists; the use of visualization; digital profiling and algorithmic individualization, which personalize a mass medium with playlists and recommendations; and the implications of the "right to be forgotten." Finally, she considers how photographs today seem to be used to escape the present rather than to preserve a memory. **Understanding New Media Augmented Knowledge & Culture** *University of Calgary Press* **This book outlines the development currently underway in the technology of new media and looks further to examine the unforeseen effects of this phenomenon on our culture, our philosophies, and our spiritual outlook. The digital revolution is something fundamentally different from simply the introduction of yet another medium to our culture: it marks a paradigm shift in our relation to all media, to all our senses, all our expressions. The new media are transforming our definitions of culture and knowledge and transcending barriers in ways that will have lasting implications for generations to come. Information Spaces The Architecture of Cyberspace** *Springer Science & Business Media* **Information Spaces: The Architecture of Cyberspace is aimed at students taking information management as a minor in their course as well as those who manage document collections but who are not professional librarians. The first part of this book looks at how users find documents and the problems they have; the second part discusses how to manage the information space using various tools such as classification and controlled vocabularies. It also explores the general issues of publishing, including legal considerations, as well the main issues of creating and managing archives. Supported by exercises and discussion questions at the end of each chapter, the book includes some sample assignments suitable for use with students of this subject. A glossary is also provided to help readers understand the specialised vocabulary and the key concepts in the design and assessment of information spaces. Customer Surveying A Guidebook for Service Managers** *Customer Service Press* **Provides the information needed to manage and conduct a customer survey program. The book walks the reader through the various stages of a survey with particular emphasis on the design of a survey questionnaire, the administration of that questionnaire, and the analysis of data using spread sheet tools. Questions a novice surveyor might have are answered. The book also dedicates a chapter to electronic surveying tools. Demographic Methods and Concepts** *OUP Oxford* **Demographic Methods and Concepts makes accessible the most commonly needed techniques for working with population statistics, irrespective of the reader's mathematical background. For the first time in such a text, concepts and practical strategies needed in the interpretation of demographic indices and data are included. Spreadsheet training exercises enable students to acquire the computer skills needed for demographic work. The**

accompanying free CD-ROM contains innovative, fully integrated learning modules as well as applications facilitating demographic studies. Mathematics for the Environment *CRC Press* Mathematics for the Environment shows how to employ simple mathematical tools, such as arithmetic, to uncover fundamental conflicts between the logic of human civilization and the logic of Nature. These tools can then be used to understand and effectively deal with economic, environmental, and social issues. With elementary mathematics, the book se Multiliteracies: Lit Learning *Routledge* Multiliteracies considers the future of literacy teaching in the context of the rapidly changing English language. Questions are raised about what constitutes appropriate literacy teaching in today's world: a world that is both a global village yet one which local diversity is increasingly important. This is a coherent and accessible overview of the work of the New London Group, with well-known international contributors bringing together their varying national experiences and differences of theoretical and political emphasis. The essays deal with issues such as: the fundamental premises of literacy pedagogy the effects of technological change multilingualism and cultual diversity social futures and their implications on language teaching. The book concludes with case studies of attempts to put the theories into practice and thereby provides a basis for dialogue with fellow educators around the world. Multiliteracies Literacy Learning and the Design of Social Futures *Psychology Press* Multiliteracies considers the future of literacy teaching in the context of the rapidly changing English language. Questions are raised about what constitutes appropriate literacy teaching in today's world: a world that is both a global village yet one which local diversity is increasingly important. This is a coherent and accessible overview of the work of the New London Group, with well-known international contributors bringing together their varying national experiences and differences of theoretical and political emphasis. The essays deal with issues such as: the fundamental premises of literacy pedagogy the effects of technological change multilingualism and cultual diversity social futures and their implications on language teaching. The book concludes with case studies of attempts to put the theories into practice and thereby provides a basis for dialogue with fellow educators around the world. Visual Research: An Introduction to Research Methodologies in Graphic Design *AVA Publishing* Visual Research: An Introduction to Research Methodologies in Graphic Design is a guide to the practice of researching for graphic design projects.