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An updated guide to the production, science, and uses of vanilla Vanilla is a flavor and fragrance in foods, cosmetics, pharmaceuticals, and a wealth of other products. Now in its second edition, the Handbook of Vanilla Science and Technology provides a comprehensive and updated review of the science and technology used in these items' production and supply. Featuring contributions from an international range of experts, this revised edition covers a multitude of topics, including agricultural production, global markets, analytical methods, sensory analysis, food and fragrance applications, organic farming and fair trade, botanical diseases, and novel uses. The Handbook of Vanilla Science and Technology, Second Edition is a vital resource for producers, distributors, and scientists involved in vanilla's growth and utilization, and offers readers: A guide to the cultivation, extraction, analysis, DNA sequencing, and marketing of vanilla Information on the production of vanilla in a range of countries such as Mexico, Australia, Costa Rica, and India Guidelines on the quality control of vanilla beans and extracts Information on fair trade and the future of vanilla Despite the recent rapid growth in machine learning and predictive analytics, many of the statistical questions that are faced by researchers and practitioners still involve explaining why something is happening. Regression analysis is the best 'swiss army knife' we have for answering these kinds of questions. This book is a learning resource on inferential statistics and regression analysis. It teaches how to do a wide range of statistical analyses in both R and in Python, ranging from simple hypothesis testing to advanced multivariate modelling. Although it is primarily focused on examples related to the analysis of people and talent, the methods easily transfer to any discipline. The book hits a 'sweet spot' where there is just enough mathematical theory to support a strong understanding of the methods, but with a step-by-step guide and easily reproducible examples and code, so that the methods can be put into practice immediately. This makes the book accessible to a wide readership, from public and private sector analysts and practitioners to students and researchers. Key Features: • 16 accompanying datasets across a wide range of contexts (e.g. academic, corporate, sports, marketing) • Clear step-by-step instructions on executing the analyses. • Clear guidance on how to interpret results. • Primary instruction in R but added sections for Python coders. • Discussion exercises and data exercises for each of the main chapters. • Final chapter of practice material and datasets ideal for class homework or project work. Electronic Assistive Technology (EAT) is a subset of a wider range of products and services known as Assistive Technology (AT). AT is designed to support and enable people with disabilities, either acquired or congenital, to participate in activities with greater independence and safety. With a global aging population, it has an important role to play in enabling and supporting those with disability and their carers. Handbook of Electronic Assistive Technology discusses a range of commonly available or emerging electronic assistive technologies. It

provides historical background, advice when assessing for these devices and references different models of provision. It includes both medical and engineering aspects of provision. It is anticipated that the book will support students, trainees, and newly qualified Assistive Technology Practitioners to develop their understanding of the field, by considering the variables that could potentially influence the decision-making process when assessing for and providing this equipment. It also provides a reference point for those already practicing in this field and offers coverage of a broader range of technologies than clinicians may be exposed to, in their daily work This is the first reference book to focus on a comprehensive set of electronic assistive technologies and discuss their clinical application. Provides comprehensive coverage of electronic assistive devices Gives an overview of physical and cognitive pathologies and approaches for utilizing electronic assistive devices for individuals affected by these pathologies Covers essentials for assistive technology practitioners, human factors and technologies The Handbook to Global Online Journalism features a collection of readings from international practitioners and scholars that represent a comprehensive and state-of-the-art overview of the relationship between the internet and journalism around the world. Provides a state-of-the-art overview of current research and future directions of online journalism Traces the evolution of journalistic practices, business models, and shifting patterns of journalistic cultures that have emerged around the world with the migration of news online Written and edited by top international researchers and practitioners in the area of online journalism Features an extensive breadth of coverage, including economics, organizational practices, contents and experiences Discusses developments in online news in a wide range of countries, from the USA to Brazil, and from Germany to China Contains original theory, new research data, and reviews of existing studies in the field The new edition of The Digital Media Handbook presents an essential guide to the historical and theoretical development of digital media, emphasising cultural continuity alongside technological change, and highlighting the emergence of new forms of communication in contemporary networked culture. Andrew Dewdney and Peter Ride present detailed critical commentary and descriptive historical accounts, as well as a series of interviews from a range of digital media practitioners, including producers, developers, curators and artists. The Digital Media Handbook highlights key concerns of today's practitioners, analysing how they develop projects, interact and solve problems within the context of networked communication. The Digital Media Handbook includes: Essays on the history and theory of digital media Essays on contemporary issues and debates Interviews with digital media professionals A glossary of technical acronyms and key terms. Increase profitability, elevate work culture, and exceed productivity goals through DevOps practices. More than ever, the effective management of technology is critical for business competitiveness. For decades, technology leaders have struggled to balance agility, reliability, and security. The consequences of failure have never been greater—whether it's the healthcare.gov debacle, cardholder data breaches, or missing the boat with Big Data in the cloud. And yet, high performers using DevOps principles, such as Google, Amazon, Facebook, Etsy, and Netflix, are routinely and reliably deploying code into production hundreds, or even thousands, of times per day. Following in the footsteps of The Phoenix Project, The DevOps Handbook shows leaders how to replicate these incredible outcomes, by showing how to integrate Product Management, Development, QA, IT Operations, and Information Security to elevate your company and win in the marketplace. The 2023 Prospect Handbook is your guide to the next wave of MLB stars The 2023 Prospect Handbook is your guide to the next wave of MLB stars. With complete scouting reports on more than 900 prospects, the Prospect Handbook is a must-have for superfans as well as fantasy players. Dominate your dynasty league and be the first to know about the stars of the 2020s and early 2030s. Drawing together the new techniques available to the market researcher into a single reference, The Handbook of Online and Social Media Research explores how these innovations are being used by the leaders in the field. This groundbreaking reference examines why traditional research is broken, both in theory and practice, and includes chapters on online research communities, community

panels, blog mining, social networks, mobile research, e-ethnography, predictive markets, and DIY research. "This handbook fills a significant learning gap for the market research profession and Ray Poynter has once again proven that he is a guiding light. The practical and pragmatic advice contained within these pages will be relevant to new students of research, young researchers and experienced researchers that want to understand the basics of online and social media research. Ray's views on 'how to be better with people' and 'how to maximise response rates' are vital clues that are likely to shape the future of market and social research." —Peter Harris, National President, Australian Market and Social Research Society (AMSRS) "It's hard to imagine anyone better suited to covering the rapidly changing world of online research than Ray Poynter. In this book he shows us why. Whether you are new to online or a veteran interested in broadening your understanding of the full range of techniques—quant and qual—this book is for you." —Reg Baker, President and Chief Operating Officer, Market Strategies International "Finally, a comprehensive handbook for practitioners, clients, suppliers and students that includes best practices, clear explanations, advice and cautionary warnings. This should be the research benchmark for online research for some time. Poynter proves he is the online market research guru." —Cam Davis, Ph.D., former Dean and current instructor of the online market research course for the Canadian Marketing Research and Intelligence Association "Ray Poynter's comprehensive, authoritative, easy to read, and knowledgeable handbook has come to our rescue ... it is a must read for anyone who needs to engage with customers or stakeholders in a creative, immediate and flexible way that makes maximum use of all the exciting, new technology now open to us. Market researchers need to know this stuff now. I can guarantee that anyone who buys the book will find it a compelling read: they will be constantly turning to the next page in order to find yet another nugget of insight from Ray's tour de force." —Dr David Smith, Director, DVL Smith Ltd; Professor, University of Hertfordshire, Business School

The second edition of the Food Processing Handbook presents a comprehensive review of technologies, procedures and innovations in food processing, stressing topics vital to the food industry today and pinpointing the trends in future research and development. Focusing on the technology involved, this handbook describes the principles and the equipment used as well as the changes - physical, chemical, microbiological and organoleptic - that occur during food preservation. In so doing, the text covers in detail such techniques as post-harvest handling, thermal processing, evaporation and dehydration, freezing, irradiation, high-pressure processing, emerging technologies and packaging. Separation and conversion operations widely used in the food industry are also covered as are the processes of baking, extrusion and frying. In addition, it addresses current concerns about the safety of processed foods (including HACCP systems, traceability and hygienic design of plant) and control of food processes, as well as the impact of processing on the environment, water and waste treatment, lean manufacturing and the roles of nanotechnology and fermentation in food processing. This two-volume set is a must-have for scientists and engineers involved in food manufacture, research and development in both industry and academia, as well as students of food-related topics at undergraduate and postgraduate levels. From Reviews on the First Edition: "This work should become a standard text for students of food technology, and is worthy of a place on the bookshelf of anybody involved in the production of foods." Journal of Dairy Technology, August 2008 "This work will serve well as an excellent course resource or reference as it has well-written explanations for those new to the field and detailed equations for those needing greater depth." CHOICE, September 2006

The official book on the Rust programming language, written by the Rust development team at the Mozilla Foundation, fully updated for Rust 2018. The Rust Programming Language is the official book on Rust: an open source systems programming language that helps you write faster, more reliable software. Rust offers control over low-level details (such as memory usage) in combination with high-level ergonomics, eliminating the hassle traditionally associated with low-level languages. The authors of The Rust Programming Language, members of the Rust Core Team, share their knowledge and experience to show you how to take full advantage of Rust's features--from installation to creating robust and scalable programs. You'll begin with basics like creating functions, choosing data types, and binding variables and then move on to more advanced concepts, such as:

- Ownership and borrowing, lifetimes, and traits
- Using Rust's memory safety guarantees to build fast, safe programs
- Testing, error handling, and effective refactoring
- Generics, smart pointers, multithreading, trait objects, and advanced pattern matching

Using Cargo, Rust's built-in package manager, to build, test, and document your code and manage dependencies

- How best to use Rust's advanced compiler with compiler-led programming techniques

You'll find plenty of code examples throughout the book, as well as three chapters dedicated to building complete projects to test your learning: a number guessing game, a Rust implementation of a command line tool, and a multithreaded server. New to this edition: An extended section on Rust macros, an expanded chapter on modules, and appendixes on Rust development tools and editions. Online research methods are popular, dynamic and fast-changing. Following on from the great success of the first edition, published in 2008, The SAGE Handbook of Online Research Methods, Second Edition offers both updates of existing subject areas and new chapters covering more recent developments, such as social media, big data, data visualization and CAQDAS. Bringing together the leading names in both qualitative and quantitative online research, this new edition is organised into nine sections: 1. Online Research Methods 2. Designing Online Research 3. Online Data Capture and Data Collection 4. The Online Survey 5. Digital Quantitative Analysis 6. Digital Text Analysis 7. Virtual Ethnography 8. Online Secondary Analysis: Resources and Methods 9. The Future of Online Social Research

The SAGE Handbook of Online Research Methods, Second Edition is an essential resource for anyone interested in the contemporary practice of computer-mediated research and scholarship. The original edition was the first book to provide a comprehensive overview of the ways in which animals can assist therapists with treatment of specific populations, and/or in specific settings. The second edition continues in this vein, with 7 new chapters plus substantial revisions of continuing chapters as the research in this field has grown. New coverage includes: Animals as social supports, Use of AAT with Special Needs students, the role of animals in the family- insights for clinicians, and measuring the animal-person bond.

- *Contributions from veterinarians, animal trainers, psychologists, and social workers
- *Includes guidelines and best practices for using animals as therapeutic companions
- *Addresses specific types of patients and environmental situations

The authoritative guide to producing, directing, shooting, editing, and distributing your video or film. Whether you aspire to be a great filmmaker yourself or are looking for movie gifts, this comprehensive guide to filmmaking is the first step in turning a hobby into a career. Widely acknowledged as the "bible" of video and film production, and used in courses around the world, The Filmmaker's Handbook is now updated with the latest advances in HD and digital formats. For students and teachers, professionals and novices, this indispensable handbook covers all aspects of movie making.

- Techniques for making dramatic features, documentaries, corporate, broadcast, and experimental videos and films
- Shooting with DSLRs, video, film, and digital cinema cameras
- In-depth coverage of lenses, lighting, sound recording, editing, and mixing
- Understanding HDR, RAW, Log, 4K, UHD, and other formats
- The business aspects of funding and producing your project
- Getting your movie shown in theaters, on television, streaming services, and online

Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions

Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources. This international bestseller and essential reference is the "bible" for digital video engineers and programmers worldwide. This fourth edition is completely updated with all new chapters on MPEG-4, H.264, SDTV/HDTV, ATSC/DVB, and Streaming Video (Video over DSL, Ethernet, etc.), as well as discussions of

the latest standards throughout. This is by far the most informative analog and digital video reference available, made even more comprehensive through the author's inclusion of the hottest new trends and cutting-edge developments in the field. Finding another amalgamated source of the huge amount of information in this book is impossible. The author attends DVD and HDTV standards meetings, so the absolute most up-to-date content is assured. The accompanying CD is updated to include a unique set of video test files in the newest formats. This book is a "one stop" reference guide for the various digital video technologies. Professionals in this rapidly changing field need the new edition of this book to keep up with the latest developments and standards in the industry. *This essential reference is the "bible" for digital video engineers and programmers worldwide *Contains all new chapters on MPEG-4, H.264, SDTV/HDTV, ATSC/DVB, and Streaming Video *Completely revised with all the latest and most up-to-date industry standards This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. An editing handbook that puts the Web first Focusing on the world of online media, the authors explore the dynamic, interactive, and evolving nature of online writing. Building on the foundation of proper grammar, good word choice, and editing for style and clear communication, the book discusses the added challenges that online writers have to address. Learning Goals Upon completing this book, readers will be able to: Understand how writing for the Web differs from traditional journalism Explore the challenges faced by online writers Create clear, effective copy for the Web Since the first edition published more than 100 years ago, Machinery's Handbook has been acknowledged as an exceptionally authoritative and comprehensive, yet highly practical, and easy-to-use tool. The versatile Machinery's Handbook 31 Digital Edition makes access to this vast collection of information even easier and includes more than 1,200 additional pages. This value-added package includes: The complete contents of the printed Machinery's Handbook, 31st Edition, which has grown by nearly 100 pages, with thousands of revisions and updates since the last edition. Nearly 800 pages of additional archival content--still useful and interesting text, tables, and figures--extracted over time from previous editions of the Handbook. Table of contents and indexes for material only available in the Digital Edition. Useful indexes of standards and materials covered throughout this expanded edition. The complete contents of the companion volume Guide to the Use of Tables and Formulas in the Machinery's Handbook, 31st Edition, with handy links to Digital Edition pages. Features View and print text, tables, and graphics identical to the printed book. Zoom to magnify pages for a detailed view of complex and detailed data. Search the complete contents and access information you need with quick navigation aids: thousands of clickable links in the contents, text, and indexes. Choose online and offline viewing options on your PC, Mac, iPad, iPhone, and Android devices (download of provided reader required for offline viewing applications). Installation Note: While we have eliminated use of a CD-ROM drive, an Internet connection still is required for setup of the Machinery's Handbook 31 Digital Edition. This package includes detailed setup instructions and a unique access code to register a single-user digital product. How do we practice journalism in a digital world, in which the old 'rules' no longer apply? This text offers comprehensive, instructive coverage of the techniques and secrets of being a successful online journalist, both from a theoretical and practical point of view. Reflecting the vitality of the web, it will inspire you to acquire new skills and make sense of a transforming industry. Key Features: How to investigate and break stories online Learn to broadcast to millions using video and podcast How to blog like a pro Learn to manage and stimulate user-generated content Include and use social media in your toolkit How to dig out stories using data journalism Rise to the challenge of citizen journalism Make your journalism more interactive at every stage of the process Dedicated chapter for Law and Online Communication The Online Journalism Handbook is essential reading for all journalism students and professionals and of key interest to media, communication studies and more broadly the social sciences. This long-awaited revised second edition of the standard reference on the subject has been considerably expanded to include such recent developments as novel control schemes, control of chaotic space-time patterns, control of noisy nonlinear systems, and communication with chaos, as well as promising new directions in research. The contributions from leading international scientists active in the field provide a comprehensive overview of our current level of knowledge on chaos control and its applications in physics, chemistry, biology, medicine, and engineering. In addition, they show the overlap with the traditional field of control theory in the

engineering community. An interdisciplinary approach of interest to scientists and engineers working in a number of areas. Named as one of Choice's Outstanding Academic Titles of 2012 Every year, Choice subject editors recognise the most significant print and electronic works reviewed in Choice during the previous calendar year. Appearing annually in Choice's January issue, this prestigious list of publications reflects the best in scholarly titles and attracts extraordinary attention from the academic library community. The authoritative reference on wind energy, now fully revised and updated to include offshore wind power A decade on from its first release, the Wind Energy Handbook, Second Edition, reflects the advances in technology underpinning the continued expansion of the global wind power sector. Harnessing their collective industrial and academic expertise, the authors provide a comprehensive introduction to wind turbine design and wind farm planning for onshore and offshore wind-powered electricity generation. The major change since the first edition is the addition of a new chapter on offshore wind turbines and offshore wind farm development. Opening with a survey of the present state of offshore wind farm development, the chapter goes on to consider resource assessment and array losses. Then wave loading on support structures is examined in depth, including wind and wave load combinations and descriptions of applicable wave theories. After sections covering optimum machine size and offshore turbine reliability, the different types of support structure deployed to date are described in turn, with emphasis on monopiles, including fatigue analysis in the frequency domain. Final sections examine the assessment of environmental impacts and the design of the power collection and transmission cable network. New coverage features: turbulence models updated to reflect the latest design standards, including an introduction to the Mann turbulence model extended treatment of horizontal axis wind turbines aerodynamics, now including a survey of wind turbine aerofoils, dynamic stall and computational fluid dynamics developments in turbine design codes techniques for extrapolating extreme loads from simulation results an introduction to the NREL cost model comparison of options for variable speed operation in-depth treatment of individual blade pitch control grid code requirements and the principles governing the connection of large wind farms to transmission networks four pages of full-colour pictures that illustrate blade manufacture, turbine construction and offshore support structure installation Firmly established as an essential reference, Wind Energy Handbook, Second Edition will prove a real asset to engineers, turbine designers and wind energy consultants both in industry and research. Advanced engineering students and new entrants to the wind energy sector will also find it an invaluable resource. FROM THE PREFACE: Many new useful ideas are presented in this handbook, including new finite impulse response (FIR) filter design techniques, half-band and multiplierless FIR filters, interpolated FIR (IFIR) structures, and error spectrum shaping. John Norman has updated his best-selling book, a guide for the firefighter and fire officer who, having learned the basic mechanics of the trade, are looking for specific methods for handling specific situations. In this new fourth edition, readers will find a new chapter on lightweight construction, a new chapter on electrical fires and emergencies, updates to many chapters including such topics as wind-driven fires, and many new illustrations. A comprehensive work that brings together and explores state-of-the-art research on the link between stress and health outcomes. Offers the most authoritative resource available, discussing a range of stress theories as well as theories on preventative stress management and how to enhance well-being Timely given that stress is linked to seven of the ten leading causes of death in developed nations, yet paradoxically successful adaptation to stress can enable individuals to flourish Contributors are an international panel of authoritative researchers and practitioners in the various specialty subjects addressed within the work In response to the ever-changing needs and responsibilities of the clinical microbiology field, Clinical Microbiology Procedures Handbook, Fourth Edition has been extensively reviewed and updated to present the most prominent procedures in use today. The Clinical Microbiology Procedures Handbook provides step-by-step protocols and descriptions that allow clinical microbiologists and laboratory staff personnel to confidently and accurately perform all analyses, including appropriate quality control recommendations, from the receipt of the specimen through processing, testing, interpretation, presentation of the final report, and subsequent consultation. Vol. 3: A supplement, edited by Eldon Stephen Branda. Includes bibliographical references. Healthcare providers, consumers, researchers and policy makers are inundated with unmanageable amounts of information, including evidence from healthcare research. It has become impossible for all to have the time and resources to find,

appraise and interpret this evidence and incorporate it into healthcare decisions. Cochrane Reviews respond to this challenge by identifying, appraising and synthesizing research-based evidence and presenting it in a standardized format, published in The Cochrane Library (www.thecochranelibrary.com). The Cochrane Handbook for Systematic Reviews of Interventions contains methodological guidance for the preparation and maintenance of Cochrane intervention reviews. Written in a clear and accessible format, it is the essential manual for all those preparing, maintaining and reading Cochrane reviews. Many of the principles and methods described here are appropriate for systematic reviews applied to other types of research and to systematic reviews of interventions undertaken by others. It is hoped therefore that this book will be invaluable to all those who want to understand the role of systematic reviews, critically appraise published reviews or perform reviews themselves. The second edition of Handbook of Practical Program Evaluation offers managers, analysts, consultants, and educators in government, nonprofit, and private institutions a valuable resource that outlines efficient and economical methods for assessing program results and identifying ways to improve program performance. The Handbook has been thoroughly revised. Many new chapters have been prepared for this edition, including chapters on logic modeling and on evaluation applications for small nonprofit organizations. The Handbook of Practical Program Evaluation is a comprehensive resource on evaluation, covering both in-depth program evaluations and performance monitoring. It presents evaluation methods that will be useful at all levels of government and in nonprofit organizations. An encyclopedia designed especially to meet the needs of elementary, junior high, and senior high school students. An introduction to a broad range of topics in deep learning, covering mathematical and conceptual background, deep learning techniques used in industry, and research perspectives. "Written by three experts in the field, Deep Learning is the only comprehensive book on the subject." —Elon Musk, cochair of OpenAI; cofounder and CEO of Tesla and SpaceX Deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts. Because the computer gathers knowledge from experience, there is no need for a human computer operator to formally specify all the knowledge that the computer needs. The hierarchy of concepts allows the computer to learn complicated concepts by building them out of simpler ones; a graph of these hierarchies would be many layers deep. This book introduces a broad range of topics in deep learning. The text offers mathematical and conceptual background, covering relevant concepts in linear algebra, probability theory and information theory, numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including deep feedforward networks, regularization, optimization algorithms, convolutional networks, sequence modeling, and practical methodology; and it surveys such applications as natural language processing, speech recognition, computer vision, online recommendation systems, bioinformatics, and videogames. Finally, the book offers research perspectives, covering such theoretical topics as linear factor models, autoencoders, representation learning, structured probabilistic models, Monte Carlo methods, the partition function, approximate inference, and deep generative models. Deep Learning can be used by undergraduate or graduate students planning careers in either industry or research, and by software engineers who want to begin using deep learning in their products or platforms. A website offers supplementary material for both readers and instructors. This comprehensive, balanced guide to personality assessment, written by two of the foremost experts in the field, is sure to become the gold standard of texts on this topic. The Handbook of Personality Assessment covers everything from the basics, including a historic overview and detailed

discussion of the assessment process and its psychometric foundations, to valuable sections on conducting the assessment interview and the nature, interpretation, and applications of the most popular self-report (objective) and performance-based (projective) measures. A concluding section of special topics such as computerized assessment, ethical and legal issues, and report writing are unique to this text. The Copyeditor's Handbook is a lively, practical manual for newcomers to publishing and for experienced editors who want to fine-tune their skills or broaden their understanding of the craft. Addressed to copyeditors in book publishing and corporate communications, this thoughtful handbook explains what copyeditors do, what they look for when they edit a manuscript, and how they develop the editorial judgment needed to make sound decisions. This revised edition reflects the most recent editions of The Chicago Manual of Style (15th ed.), the Publication Manual of the American Psychological Association (5th ed.), and Merriam-Webster's Collegiate Dictionary (11th ed.). "Guide to tables, formulas, & more in the 31st edition"--Cover. This second edition of the successful Handbook of Adhesion provides concise and authoritative articles covering many aspects of the science and technology associated with adhesion and adhesives. It is intended to fill a gap between the necessarily simplified treatment of the student textbook and the full and thorough treatment of the research monograph and review article. The articles are structured in such a way, with internal cross-referencing and external literature references, that the reader can build up a broader and deeper understanding, as their needs require. This second edition includes many new articles covering developments which have risen in prominence in the intervening years, such as scanning probe techniques, the surface forces apparatus and the relation between adhesion and fractal surfaces. Advances in understanding polymer - polymer interdiffusion are reflected in articles drawing out the implications for adhesive bonding. In addition, articles derived from the earlier edition have been revised and updated where needed. Throughout the book there is a renewed emphasis on environmental implications of the use of adhesives and sealants. The scope of the Handbook, which features nearly 250 articles from over 60 authors, includes the background science - physics, chemistry and material science - and engineering, and also aspects of adhesion relevant to the use of adhesives, including topics such as: Sealants and mastics Paints and coatings Printing and composite materials Welding and autohesion Engineering design The Handbook of Adhesion is intended for scientists and engineers in both academia and industry, requiring an understanding of the various facets of adhesion. The demand for academic coursework and corporate training programs using the Internet and computer-mediated communication networks increases daily. The development and implementation of these new programs requires that traditional teaching techniques and course work be significantly reworked. This handbook consists of 20 chapters authored by experts in the field of teaching in the online environment to adult students enrolled in graduate university degree programs, corporate training programs, and continuing education courses. The book is organized to first lay a conceptual and theoretical foundation for implementing any online learning program. Topics such as psychological and group dynamics, ethical issues, and curriculum design are covered in this section. Following the establishment of this essential framework are separate sections devoted to the practical issues specific to developing a program in either an academic or corporate environment. Whether building an online learning program from the ground up or making adjustments to improve the effectiveness of an existing program, this book is an invaluable resource.--From Amazon. Looks at the digital filmmaking process, covering such topics as choosing a camera, lighting, sound, editing, color correction, and compositing.