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Serving as an all-in-one guide to the entire field of coatings technology, this encyclopedic reference covers a diverse range of topics-including basic concepts, coating types, materials, processes, testing and applications-summarizing both the latest developments and standard coatings methods. Take advantage of the insights and experience of over Salen Metal Complexes as Catalysts for the Synthesis of Polycarbonates from Cyclic Ethers and Carbon Dioxide, by Donald J. Darensbourg.- Material Properties of Poly(Propylene Carbonates), by Gerrit. A. Luinstra and Endres Borchardt.- Poly(3-Hydroxybutyrate) from Carbon Monoxide, by Robert Reichardt and Bernhard Rieger. - Ecoflex® and Ecovio®: Biodegradable, Performance-Enabling Plastics, by K. O. Siegenthaler, A. Künkel, G. Skupin and M. Yamamoto.- Biodegradability of Poly(Vinyl Acetate) and Related Polymers, by Manfred Amann and Oliver Minge.- Recent Developments in Ring-Opening Polymerization of Lactones, by P. Lecomte and C. Jérôme.- Recent Developments in Metal-Catalyzed Ring-Opening Polymerization of Lactides and Glycolides: Preparation of Polylactides, Polyglycolide, and Poly(lactide-co-glycolide), by Saikat Dutta, Wen-Chou Hung, Bor-Hunn Huang and Chu-Chieh Lin.- Bionolle (Polybutylenesuccinate), by Yasushi Ichikawa, Tatsuya Mizukoshi.- Polyurethanes from Renewable Resources, by David A. Babb.- This contributed volume reviews the recent progress in our understanding of membrane transport in yeast including both *Saccharomyces cerevisiae* and non-conventional yeasts. The articles provide a summary of the key transport processes and put these in a systems biology context of cellular regulation, signal reception and homeostasis. After a general introduction, readers will find review articles covering the mechanisms and regulation of transport for various substrates ranging from diverse nutrients to cations, water and protons. These articles are complemented by a chapter on extremophilic yeast, a chapter on the mathematical modelling of ion transport and two chapters on the role of transport in pathogenic yeasts and antifungal drug resistance. Each article provides both a general overview of the main transport characteristics of a specific substrate or group of substrates and the unique details that only an expert working in the field is able to transmit to the reader. Researchers and students of the topic will find this book to be a useful resource for membrane transport in yeast collecting information in one complete volume, which is otherwise scattered across many papers. This might also be interesting for scientists investigating other species in order to compare transport mechanisms with known functions in yeast with the cells on which they work. The Second Edition of Modern Size-Exclusion Chromatography offers a complete guide to the theories, methods, and applications of size-exclusion chromatography. It provides an unparalleled, integrated, up-to-date treatment of gel permeation and gel filtration chromatography. With its detailed descriptions of techniques, data handling, compilations of information on columns and column packings, and tables of important solvents and reference materials, the book offers readers everything they need to take full advantage of this popular macromolecular characterization technique. Since publication of the first edition in 1979, there have been many important advances in the field of size-exclusion chromatography. This Second Edition brings the book thoroughly up to date, with expert coverage of: New and emerging industrial and research applications Practical aspects of size-exclusion chromatography (SEC) and multidetector and multidimensional SEC technologies for polymer architecture and copolymer analysis Updated information on the latest equipment and techniques New best practices for the lab SEC in relation to polymer characterization techniques such as GPEC, LCCC, and rheology Throughout the text, detailed examples guide you step by step through all the latest techniques and applications. With its extensive revisions and updates written by leading experts and pioneers in the field, Modern Size-Exclusion Liquid Chromatography remains the definitive resource for the broad range of researchers and scientists who use HPLC and GPC methods. The first strand involves a critical overview of the design of experimental methods used for examining the thermal behaviour of solid fuels [pyrolysis, liquefaction and gasification], while the second will emphasise chemical structures and molecular mass distributions of coal derived tars, extracts and pitches, petroleum-derived asphaltene, and biomass derived heavy hydrocarbon liquids. Two major, interdependent strands in the study of fossil and renewable fuel utilisation are focused on within this text: (i) Thermal characterisation of solid fuels including various ranks of coals, biomass and waste, and, (ii) The analytical characterisation of heavy hydrocarbon liquids, covering coal, petroleum and biomass derived heavy fractions. Two major, interdependent strands in the study of fossil and renewable fuel utilisation are focused on within this text: (i) Thermal characterisation of solid fuels including various ranks of coals, biomass and waste, and, (ii) The analytical characterisation of heavy hydrocarbon liquids, covering coal, petroleum and biomass derived heavy fractions. Take a trip along Ontario's historical railroads with images and histories of surviving stations, bridges, and rolling stock from the earliest days to the modern era. The two companion volumes of Advances in Polymer Science - Volumes 150 and 151 - deal with recent progress in the characterization of polymers, mostly in solution but also at surfaces. The contributions comprise multidimensional chromatography for elucidation, the composition and the chain length distribution of copolymers, capillary electrophoresis of synthetic water-soluble polymers including polyelectrolytes, field flow fractionation techniques for quick and reliable separation and characterization of broad polymer samples and a novel application of thermal grating experiments for probing Brownian and thermal diffusion. Finally the rapid development of atomic forces techniques is reviewed with particular emphasis on the visualization of macromolecules and the patterning of surfaces. This comprehensive and self-contained textbook will help students in acquiring an understanding of fundamental concepts and applications of engineering mechanics. With basic prior knowledge, the readers are guided through important concepts of engineering mechanics such as free body diagrams, principles of the transmissibility of forces, Coulomb's law of friction, analysis of forces in members of truss and rectilinear motion in horizontal direction. Important theorems including Lami's theorem, Varignon's theorem, parallel axis theorem and perpendicular axis theorem are discussed in a step-by-step manner for better clarity. Applications of ladder friction, wedge friction, screw friction and belt friction are discussed in detail. The textbook is primarily written for undergraduate engineering students in India. Numerous theoretical questions, unsolved numerical problems and solved problems are included throughout the text to develop a clear understanding of the key principles of engineering mechanics. This text is the ideal resource for first year engineering undergraduates taking an introductory, single-semester course in engineering mechanics. They were once-upon-a-time high school sweethearts, meant to be. Until his dad skipped town with her mom. End of story. Ten years later Avery Robinson is back in tiny Austen, Oregon for her dad's funeral, suddenly single and unemployed. The last thing she needs is for his beloved dog to develop an annoyingly heartfelt canine crush on Logan Wagner. Even if her former love does look particularly dashing playing Mr. Darcy in the local Jane Austen festival. As sparks fly between them, the business empire Logan built from nothing suddenly feels hollow without Avery in his life. But trying to prove himself, he ends up juggling secrets that do more harm than good, and even Ace's puppy love can't help him regain Avery's heart. Pride, prejudice, and their inescapable past stand in the way of starting a new chapter together. But could a little Austen magic give them a second chance, in the place where they began? If you love charming small towns, endearing dogs, determined heroes, swoon-worthy grand gestures, and a dash of Jane Austen, don't

miss this warmhearted, hometown happily ever after! "College Physics," Second Edition is the best solution for today's college physics market. With a unique, new, approach to physics that builds a conceptual framework as motivation for the physical principles, consistent problem solving coverage strategies, stunning art, extensive end-of-chapter material, and superior media support, Giambattista, Richardson, and Richardson delivers a product that addresses today's market needs with the best tools available.. On the International Board on Books for Young People (IBBY) Honour List 2014 2013 Ezra Jack Keats New Writer Award Honor Book 2013 Amelia Frances Howard-Gibbon Illustrator's Award nominee Forest of Reading's Golden Oak 2014 winner 2014 Silver Birch Express Award nominee OLA 2012 Best Bet - Picture Books category A city boy finds a stamp that unlocks his imagination; a country boy is captivated by stories. When they grow up, the two boys take different paths--one becomes a prison guard, the other works in a factory--but their early childhood passions remain. When the country boy's stories of hope land him in prison, the letters and stamps sent to him from faraway places intrigue the prison guard and a unique friendship begins. The Film Developing Cookbook is an up-to-date manual for modern film development techniques. While the original Darkroom Cookbook focused entirely on photographic chemicals and formulae, this book concentrates on films, their characteristics, and the developers each requires for maximum control of the resulting image. The Film Developing Cookbook specifically addresses the difficult subject of T-grain film development. It includes rarely found information on film development and the nature of film developers. The authors take bold and controversial stances on many widely accepted film developing dogmas. They tackle many of the widely accepted "myths" of film development. They reject the trend toward `scientific evaluation' of films and developers in favor of the photographer developing a personal aesthetic without relying exclusively on densitometry or H&D curves. Steve Anshell is a contributing editor to Outdoor Photographer and PhotoWork magazines. He has written columns, feature articles, and interviews for Camera & Darkroom, View Camera, PIC, Shutterbug, Photo Shopper, and PhotoPro magazines. His previous two books with Focal Press, The Darkroom Cookbook and The Variable Contrast Printing Manual are photography best-sellers. Steve's photographs have been exhibited in galleries and are shown in private collections. He photographs and prints both color and black-and-white with 35mm, 2 1/4 and large-format cameras. He has conducted over 80 photographic and darkroom workshops since 1979. Steve is currently the program director for the Photographer's Formulary Workshops in Condon, Montana. In early 1998, the first collection of his personal work, entitled The Nude at Big Sur, will be published by Whitefish Editions. Bill Troop is a highly respected independent photochemist. This thematic issue devoted to 'Template Effects and Molecular Organization' is based on a special symposium recently organized by the American Chemical Society in Philadelphia. The authors contributed oral presentations and are experts in their fields. Each chapter is fully referenced Contains comprehensive reviews written by leading experts in the field Includes new information on the important advances in inorganic and bioinorganic chemistry Covering the hard history of Canada's drive towards Confederation and Nationhood. From the formation of Upper Canada, the War of 1812, Rebellion, Reform, and Nation Building. The events, people, and conflicts that became the foundation of Canada in 1867. In modern polymer science a variety of polymerization methods for the direct synthesis of polymers bearing functional groups are known. However, there is still a large number of functional groups that may either completely prevent polymerization or lead to side reactions. Post-polymerization modification, also known as polymer-analogous modification, is an alternative approach to overcome these limitations. It is based on the polymerization of monomers with functional groups that are inert towards the polymerization conditions but allow a quantitative conversion in a subsequent reaction step yielding a broad range of other functional groups. Thus, diverse libraries of functional polymers with identical average degrees of polymerization but variable side chain functionality may easily be generated. Filling the gap for a book dealing with synthetic strategies and recent developments, this volume provides a comprehensive and up-to-date overview of the field of post-polymerization modification. As such, the international team of expert authors covers a wide range of topics, including new synthetic techniques utilizing different reactive groups for post-polymerization modifications with examples ranging from modification of biomimetic and biological polymers to modification of surfaces. With its guidelines this is an indispensable and interdisciplinary reference for scientists working in both academic and industrial polymer research. The architectural community has had a strong and continuing interest in traditional and vernacular architecture. Lessons from Vernacular Architecture takes lessons directly from traditional and vernacular architecture and offers them to the reader as guidance and inspiration for new buildings. The appropriate technical and social solutions provided by vernacular and traditional architecture are analysed in detail. International case studies focus on environmental design aspects of traditional architecture in a broad range of climatic conditions and building types. Packed with the very latest wire antenna designs and developments from around the world. Covers a vast array of wire antenna designs including dipoles, doublets, verticals, loops and end-fed wires, as well a subjects such as impedance matching, TTUs, baluns, feeders, antenna masts and rigging, there is even an introductory chapter covering the antenna basics.--Cover. Riding China is Joe Berk's third book in a series about long-distance RX3 motorcycle adventures. Riding China describes an epic journey: 8,800 kilometers. Heat. Humidity. Altitude. Cold. Rain. More rain. Magnificent scenery. Buddhism. Islam. Christianity. An entire army of hidden underground porcelain soldiers. Lost Roman Legions. Forbidden cities and forgotten cities. Camels. Freeways. Country roads. Twisting mountain roads. Dirt roads. Mud roads. A cuisine that can only be described as amazing, wonderful, unique, unusual, spicy, and delicious. Riding China is a true adventure. Ride with Berk and his Chinese brothers as they take you on the motorcycle ride of a lifetime! The art of darkroom developing and printing will never go out of style. Master darkroom specialist Steve Anshell is back to prove it in this long-awaited third edition of his enormously successful Darkroom Cookbook. Packed with over 200 "recipes," some common and others rare gems, you'll discover something new every time you open this guide, whether you're new to the darkroom or have been making your own prints for years. In addition to the formulas, you'll find tons of useful information on developers, push-processing, where to get darkroom equipment, how to set up your own darkroom, how to work and play in your darkroom safely, and much more. This handy guide will become a constant companion for every darkroom enthusiast creating prints at home or in the studio. In addition to complete updates throughout to reflect changes in the availability of chemicals and equipment, this third edition contains all new information on: *Reversal processing *Enlarged negatives *Pyro formulas *Plus expanded sections on printing, pyro, and toning prints Also included for the first time are special technique contributions as well as stunning black and white imagery by Bruce Barnbaum, Rod Dresser, Jay Dusard, Patrick Gainer, Richard Garrod, Henry Gilpin, Gordon Hutchings, Sandy King, Les McLean, Saïd Nuseibeh, France Scully Osterman, Mark Osterman, Tim Rudman, Ryuijie, John Sexton, and John Wimberly. Be sure to visit www.darkroomcookbook.com to find useful links, an interactive user forum, and more! Steve Anshell is a photographer and author of The Variable Contrast Printing Manual, and co-author of The Film Developing Cookbook. He has been teaching darkroom and photography workshops since 1979. Steve is a member of the Freestyle Advisory Board of Photographic Professionals. "With its unrivalled collection of photographic formulae and easy to understand explanations of photographic processes, The Darkroom Cookbook has long been a favorite with darkroom workers everywhere. Now, with further additions to its formulary, more topics, and contributions by renowned darkroom experts, this new edition promises to be an indispensable Aladdin's Cave resource to darkroom enthusiasts of all levels. -Tim Rudman, photographer and author "The Darkroom Cookbook is an essential compendium of photographic information for anyone interested in high-quality darkroom work. -John Sexton, photographer Gordon West, WB6NOA, study manual for the 2018-2022 FCC Element 2 written examination for the entry-level Technician Class license. Includes the complete FCC Question Pool along with answer explanations and illustrations to aid learning. The move toward worldwide wireless communications continues at a remarkable pace, and the antenna element of the technology is crucial to its success. With contributions from more than 30 international experts, the Handbook of Antennas in Wireless Communications brings together all of the latest research and results to provide engineering professionals and students with a one-stop reference on the theory, technologies, and applications for indoor, hand-held, mobile, and satellite systems. Beginning with an introduction to wireless communications systems, it offers an in-depth treatment of propagation prediction and fading channels. It then explores antenna technology with discussion of antenna design methods and the various antennas in current use or development for base stations, hand held devices, satellite communications, and shaping beams. The discussions then move to smart antennas and phased array technology, including details on array theory and beamforming techniques. Space diversity, direction-of-arrival estimation, source tracking, and blind source separation methods are addressed, as are the implementation of smart antennas and the results of field trials of systems using smart antennas implemented. Finally, the hot media topic of the safety of mobile phones receives due attention, including details of how the human body interacts with the electromagnetic

fields of these devices. Its logical development and extensive range of diagrams, figures, and photographs make this handbook easy to follow and provide a clear understanding of design techniques and the performance of finished products. Its unique, comprehensive coverage written by top experts in their fields promises to make the Handbook of Antennas in Wireless Communications the standard reference for the field. As the availability of powerful computer resources has grown over the last three decades, the art of computation of electromagnetic (EM) problems has also grown - exponentially. Despite this dramatic growth, however, the EM community lacked a comprehensive text on the computational techniques used to solve EM problems. The first edition of Numerical Techniques in Electromagnetics filled that gap and became the reference of choice for thousands of engineers, researchers, and students. The Second Edition of this bestselling text reflects the continuing increase in awareness and use of numerical techniques and incorporates advances and refinements made in recent years. Most notable among these are the improvements made to the standard algorithm for the finite difference time domain (FDTD) method and treatment of absorbing boundary conditions in FDTD, finite element, and transmission-line-matrix methods. The author also added a chapter on the method of lines. Numerical Techniques in Electromagnetics continues to teach readers how to pose, numerically analyze, and solve EM problems, give them the ability to expand their problem-solving skills using a variety of methods, and prepare them for research in electromagnetism. Now the Second Edition goes even further toward providing a comprehensive resource that addresses all of the most useful computation methods for EM problems. This thorough and informative volume presents a set of detailed, globally applicable techniques for seagrass research. The book provides methods for all aspects of seagrass science from basic plant collection to statistical approaches and investigations of plant-animal interaction. The emphasis is on methods that are applicable in both developing and developed countries. The importance of seagrasses in coastal and near shore environments, and ultimately their contribution to the productivity of the world's oceans, has become increasingly recognised over the last 40 years. Seagrasses provide food for sea turtles, nearly 100 fish species, waterfowl and for the marine mammals the manatee and dugong. Seagrasses also support complex food webs by virtue of their physical structure and primary production and are well known for their role as breeding grounds and nurseries for important crustacean, finfish and shell fish populations. Seagrasses are the basis of an important detrital food chain. The plants filter nutrients and contaminants from the water, stabilise sediments and act as dampeners to wave action. Seagrasses rank with coral reefs and mangroves as some of the world's most productive coastal habitat and strong linkages among these habitats make the loss of seagrasses a contributing factor in the degradation of the world's oceans. Contributors from around the world provide up-to-date methods for comparable collection of ecological information from both temperate and tropical seagrass ecosystems.

ARE YOU READY FOR AN AMAZING NEW VERSION OF THE PHOTOSHOP BOOK THAT BREAKS ALL THE RULES? Scott Kelby, Editor and Publisher of Photoshop User magazine—and the best-selling Photoshop author in the world today—once again takes this book to a whole new level as he uncovers more of the latest, most important, and most useful Adobe Photoshop CS6 techniques for digital photographers. This major update to his award-winning, record-breaking book does something for digital photographers that's never been done before—it cuts through the bull and shows you exactly "how to do it." It's not a bunch of theory; it doesn't challenge you to come up with your own settings or figure it out on your own. Instead, Scott shows you step by step the exact techniques used by today's cutting-edge digital photographers, and best of all, he shows you flat-out exactly which settings to use, when to use them, and why. That's why the previous editions of this book are widely used as the official study guides in photography courses at colleges and universities around the world.

LEARN HOW THE PROS DO IT Each year, Scott trains thousands of professional photographers on how to use Photoshop, and almost without exception they have the same questions, the same problems, and the same challenges—and that's exactly what he covers in this book. You'll learn: The sharpening techniques the pros really use. The pros' tricks for fixing the most common digital photo problems fast! The step-by-step setup for getting what comes out of your printer to match exactly what you see onscreen. How to process HDR (High Dynamic Range) images using CS6's Merge to HDR Pro. How to master CS6's Content-Aware features. How to use Photoshop CS6's new video editing features to make movies from your DSLR videos. How to process RAW images like a pro (plus how to take advantage of all the new Camera Raw features in CS6!). The latest Photoshop special effects for photographers (there's a whole chapter just on these!). A host of shortcuts, workarounds, and slick "insider" tricks to send your productivity through the roof! Plus, Scott includes a special bonus chapter with his own CS6 workflow, from start to finish, and each chapter ends with a Photoshop Killer Tips section, packed with timesaving, job-saving tips that make all the difference. If you're a digital photographer, and if you're ready to learn all the "tricks of the trade"—the same ones that today's leading pros use to correct, edit, sharpen, retouch, and present their work—then you're holding the book that will do just that. Note from the publisher: August 9, 2012: All binding issues mentioned in our July 31, 2012 note below have been resolved. Thank you. July 31, 2012: We have encountered issues with the binding in our initial print run of this book. If you have purchased a copy of the book you are not happy with, please return it to the store where you made your purchase to request a replacement copy right away. We apologize for the inconvenience and appreciate your patience.

Cyclic Polymers (Second Edition) reviews the many recent advances in this rapidly expanding subject since the publication of the first edition in 1986. The preparation, characterisation, properties and applications of a wide range of organic and inorganic cyclic oligomers and polymers are described in detail, together with many examples of catenanes and rotaxanes. The importance of large cyclics in biological chemistry and molecular biology is emphasised by a wide coverage of circular DNA, cyclic peptides and cyclic oligosaccharides and polysaccharides. Experimental techniques and theoretical aspects of cyclic polymers are included, as well as examples of their uses such as ring opening polymerisation reactions to give commercially important materials. This book covers a wide range of topics which should be of interest to many scientific research workers (for example, in polymer science, chemistry and molecular biology), as well as providing a reference text for undergraduate and graduate students.

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