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Handbook of Thermoplastics, Second Edition Olagoke Olabisi 2016-02-03 This new edition of the bestselling Handbook of Thermoplastics incorporates recent developments and advances in thermoplastics with regard to materials development, processing, properties, and applications. With contributions from 65 internationally recognized authorities in the field, the second edition features new and updated discussions of several topics, including: Polymer nanocomposites Laser processing of thermoplastic composites Bioplastics Natural fiber thermoplastic composites Materials selection Design and application Additives for thermoplastics Recycling of thermoplastics Regulatory and legislative issues related to health, safety, and the environment The book also discusses state-of-the-art techniques in science and technology as well as environmental assessment with regard to the impact of thermoplastics. Each chapter is written in a review format that covers: Historical development and commercialization Polymerization and process technologies Structural and phase characteristics in relation to use properties The effects of additives on properties and applications Blends, alloys, copolymers, and composites derived from thermoplastics Applications Giving thorough coverage of the most recent trends in research and practice, the Handbook of Thermoplastics, Second Edition is an indispensable resource for experienced and practicing professionals as well as upper-level undergraduate and graduate students in a wide range of disciplines and industries.
Polymer Nanoclay Composites Stephan Laske 2015-01-09 There is a major lack of fundamental knowledge and understanding on the interaction between a filler and the polymer matrix. When it comes to nanoscale fillers, such as layered silicates, carbon nanotubes, graphene or cellulose nanofibers it is even more important to know accurate structure-property relationships as well as identifying the parameters influencing material behavior. The reason for the lack of knowledge on how to process nanocomposites and why there are so few applications is that several scientific fields are affected and a joint effort of those scientific communities involved is necessary – starting from the filler manufacturing or pre-processing over polymer chemistry to the polymer processing. In Polymer Nanoclay Composites, all involved scientific areas are viewed together for the first time, providing an all-embracing coverage of all stages of polymer clay nanocomposites processing from lab-scale to industrial scale – stages from the raw material over manufacturing of polymer clay nanocomposites to characterization and the final products. Readers will gain insight in the physical/chemical pre-processing of layered silicates and their incorporation into a polymer matrix using sophisticated technologies (such as advanced compounding) as well as in real-time quality control of the nanocomposite production and future prospects. The book also describes nanotoxicological and nanosafety aspects. Covers the whole processing route with all aspects of the nanocomposites industry with particular focus on the processing of polymer clay nanocomposites Includes quality control and nanosafety Multidisciplinary approach from an industrial perspective
Injection Moulding Technology 1981
The Toxic Substances Control Act 1984
New Frontiers of Nanoparticles and Nanocomposite Materials Andreas Öchsner 2014-07-08 The development of nanomaterials opens the possibility for new materials with outstanding properties compared to classical engineering materials. These materials can find applications in different fields such as medical treatment or structural mechanics. This monograph focuses on two major groups of nanomaterials, i.e.nanoparticels and nanocomposites. Nanopartices, for example in the form of hollow particles, allow for new possibilities in drug delivery. Different aspects of nanoparticles ranging from manufacturing to modeling and simulation are covered. Nanocomposite materials are formed by mixing two or more dissimilar materials at the nanoscale in order to control and develop new and improved structures and properties. The properties of nanocomposites depend not only on the individual components used but also on the morphology and the interfacial characteristics. Nanocomposite coatings and materials are one of the most exciting and fastest growing areas of research and novel properties being continuously developed which are previously unknown in the constituent materials. Thus, the second part of this monograph gives an overview on the latest developments in the area of composites and coatings based on nanomaterials.
Materials Science of Polymers for Engineers Tim A. Osswald 2003-01-01 This unified approach to polymer materials science is divided in three major sections:
Polymer Processing Donald G. Baird 2014-03-24 Fundamental concepts coupled with practical, step-by-step guidance With its emphasis on core principles, this text equips readers with the skills and knowledge to design the many processes needed to safely and successfully manufacture thermoplastic parts. The first half of the text sets forth the general theory and concepts underlying polymer processing, such as the viscoelastic response of polymeric fluids and diffusion and mass transfer. Next, the text explores specific practical aspects of polymer processing, including mixing, extrusion dies, and post-die processing. By addressing a broad range of design issues and methods, the authors demonstrate how to solve most common processing problems. This Second Edition of the highly acclaimed Polymer Processing has been thoroughly updated to reflect current polymer processing issues and practices. New areas of coverage include: Micro-injection molding to produce objects weighing a fraction of a gram, such as miniature gears and biomedical devices New chapter dedicated to the recycling of thermoplastics and the processing of renewable polymers Life-cycle assessment, a systematic method for determining whether recycling is appropriate and which form of recycling is optimal Rheology of polymers containing fibers Chapters feature problem sets, enabling readers to assess and reinforce their knowledge as they progress through the text. There are also special design problems throughout the text that reflect real-world polymer processing issues. A companion website features numerical subroutines as well as guidance for using MATLAB®, IMSL®, and Excel to solve the sample problems from the text. By providing both underlying theory and practical step-by-step guidance, Polymer Processing is recommended for students in chemical, mechanical, materials, and polymer engineering.
Advances in Nanocomposite Technology Abbass A. Hashim 2011-07-27 The book "Advances in Nanocomposite Technology" contains 16 chapters divided in three sections. Section one, "Electronic Applications", deals with the preparation and characterization of nanocomposite materials for electronic applications and studies. In section two, "Material Nanocomposites", the advanced research of polymer nanocomposite material and polymer-clay, ceramic, silicate glass-based nanocomposite and the functionality of graphene nanocomposites is presented. The Human and Bioapplications section is describing how nanostructures are synthesized and draw attention on wide variety of nanostructures available for biological research and treatment applications. We believe that this book offers broad examples of existing developments in nanocomposite technology research and an excellent introduction to nanoelectronics, nanomaterial applications and bionanocomposites.
Reporting company section United States. Environmental Protection Agency. Office of Toxic Substances 1979
Functionalization of Polyolefins T. C. Chung 2002-03-14 Summarizes the significant experimental results on the functionalization of polyolefins and classifies them into several chemical methods. This book also provides information on the functional polyolefin materials. It covers: chemical approaches in the functionalization of polyolefins, and polyolefin materials and their potential applications.
Thermoplastic Foam Extrusion James L. Throne 2004 This unique introduction covers both low- and high-density thermoplastic foams in an easy-to-follow style that avoids excursions into the theoretical aspects of foam processing.
Foam Extrusion S.-T. Lee 2014-04-07 Combining the science of foam with the engineering of extrusion processes, Foam Extrusion: Principles and Practice delivers a detailed discussion of the theory, design, processing, and application of degradable foam extraction. In one comprehensive volume, the editors present the collective expertise of leading academic, research, and industry specialists while laying the scientific foundation in such a manner that the microscopic transition from a nucleus to a void (nucleation) and macroscopic movement from a void to an object (formation) are plausibly addressed. To keep pace with significant improvements in foam extrusion technology, this Second Edition: Includes new chapters on the latest developments in processing/thermal management, rheology/melt strength, and biodegradable and sustainable foams Features extensive updates to chapters on extrusion equipment, blowing agents, polyethylene terephthalate (PET) foam, and microcellular innovation Contains new coverage of cutting-edge foaming mechanisms and technology, as well as new case studies, examples, and figures Capturing the interesting evolution of the field, Foam Extrusion: Principles and Practice, Second Edition provides scientists, engineers, and product development professionals with a modern, holistic view of foam extrusion to enhance research and development and aid in the selection of the optimal screw, die design, and foaming system.
Handbook of Specialty Elastomers Robert C. Klingender 2008-01-22 Written and edited by experts on specialty elastomers applications in the mechanical and automotive products industries, the Handbook of Specialty Elastomers provides a single source reference for the design of compounds using specialty elastomers. This book defines specialty elastomers as heat-, oil-, fuel-, and solvent-resistant polymers. Each chapter examines individual elastomers in terms of development history, chemical composition, structure, and properties as well as processing methods, applications, and commercially available products. Covering their applications in the rubber, energy, chemicals, and oil industries, the book also discusses the use of antioxidants, antiozonants, vulcanization agents, plasticizers, and process aids for specialty elastomers. The concluding chapter details considerations and relevant processes—such as molding operations—involved in designing application-specific rubber components. The Handbook of Specialty Elastomers provides comprehensive insight into the processes and challenges of designing rubber formulations and specialty elastomeric components.
Polymer Processing Jean-François Agassant 2017-08-07 Engineering of polymers is not an easy exercise: with evolving technology, it often involves complex concepts and processes. This book is intended to provide the theoretical essentials: understanding of processes, a basis for the use of design software, and much more. The necessary physical concepts such as continuum mechanics, rheological behavior and measurement methods, and thermal science with its application to heating-cooling problems and implications for flow behavior are analyzed in detail. This knowledge is then applied to key processing methods, including single-screw extrusion and extrusion die flow, twin-screw extrusion and its applications, injection molding, calendering, and processes involving stretching. With many exercises with solutions offered throughout the book to reinforce the concepts presented, and extensive illustrations, this is an essential guide for mastering the art of plastics processing. Practical and didactic, Polymer Processing: Principles and Modeling is intended for engineers and technicians of the profession, as well as for advanced students in Polymer Science and Plastics Engineering.
Coal Tar Creosote C. Melber 2004 On cover: IPCS International Programme on Chemical Safety. Published under the joint sponsorship of the United Nations Environment Programme, the International Labour Organization and the World Health Organization, and produced within the framework of the Inter-organization Programme for the Sound

Management of Chemicals (IOMC)
Diffusion in Polymers John Crank 1968
Polymer Processing Instabilities Savvas G. Hatzikiriakos 2004-11-30 Polymer Processing Instabilities: Control and Understanding offers a practical understanding of the various flows that occur during the processing of polymer melts. The book pays particular attention to flow instabilities that affect the rate of production and the methods used to prevent and eliminate flow instabilities in order to increase production rates and enhance manufacturing efficiency. Polymer Processing Instabilities: Control and Understanding summarizes experimental observations of flow instabilities that occur in numerous processing operations such as extrusion, injection molding, fiber spinning, film casting, and film blowing for a wide range of materials, including most commodity polymers that are processed as melts at temperatures above their melting point or as concentrated solutions at lower temperatures. The book first presents the fundamental principles in rheology and flow instabilities. It relates the operating conditions with flow curves, the critical wall shear stress for the onset of the instabilities, and new visualization techniques with numerical modeling and molecular structure. It reviews one-dimensional phenomenological relaxation/oscillation models describing the experimental pressure and flow rate oscillations, analyzes the gross melt fracture (GMF) instability, and examines how traditional and non-traditional processing aids eliminate melt fracture and improve polymer processability. It supplies a numerical approach for the investigation of the linear viscoelastic stability behavior of simplified injection molding flows and examines a newly discovered family of instabilities that occur in co-extrusion. Polymer Processing Instabilities: Control and Understanding is unique in that it fills a gap in the polymer processing literature where polymer flow instabilities are not treated in-depth in any book. It summarizes state-of-the-art developments in the field, particularly those of the last ten years, and contains significant data based on this research.
Plastic Product Material and Process Selection Handbook Dominick V Rosato 2004-08-04 This book is for people involved in working with plastic material and plastic fabricating processes. The information and data in this book are provided as a comparative guide to help in understanding the performance of plastics and in making the decisions that must be made when developing a logical approach to fabricating plastic products to meet performance requirements at the lowest costs. It is formatted to allow for easy reader access and this care has been translated into the individual chapter constructions and index. This book makes very clear the behaviour of the 35,000 different plastics with the different behaviours of the hundreds of processes. Products reviewed range from toys to medical devices, to cars, to boats, to underwater devices, containers, springs, pipes, aircraft and spacecraft. The reader's product to be designed and/or fabricated can be directly or indirectly related to plastic materials, fabricating processes and/or product design reviews in this book. *Essential for people involved in working with plastic material and plastic fabricating processes *Will help readers understand the performance of plastics *Helps readers to make decisions which meet performance requirements and to keep costs low
SPE/ANTEC 1999 Proceedings Spe 1999-04-29 Volume 2 of the conference proceedings of the SPE/Antac on 'Plastics Bridging the Millennia- subtopic of 'Materials', held on the 2-6 May 1999 in New York City, USA.
Overcoming School Refusal Joanne Garfi 2018-01-31 School refusal affects up to 5% of children and is a complex and stressful issue for the child, their family and school. The more time a child is away from school, the more difficult it is for the child to resume normal school life. If school refusal becomes an ongoing issue it can negatively impact the child’s social and educational development. Psychologist Joanne Garfi spends most of her working life assisting parents, teachers, school counsellors, caseworkers, and community policing officers on how best to deal with school refusal. Now her experiences and expertise are available in this easy-to-read practical book. Overcoming School Refusal helps readers understand this complex issue by explaining exactly what school refusal is and provides them with a range of strategies they can use to assist children in returning to school. Areas covered include: • types of school refusers • why children refuse to go to school • symptoms • short term and long term consequences • accurate assessment • treatment options • what parents can do • what schools can do • dealing with anxious high achievers • how to help children on the autism spectrum with school refusal
Additives for Polyolefins Michael Tolinski 2009-09-22 This book focuses on the polyolefin additives that are currently important in the plastics industry, alongside new additives of increasing interest, such as nanofillers and environmentally sustainable materials. As much as possible, each chapter emphasizes the performance of the additives in the polymer, and the value each relevant additive brings to polypropylene or polyethylene. Where possible, similar additives are compared by capability and relative cost. With major sections for each additive function, this book provides a highly practical guide for engineers and scientists creating and using polyolefin compounds, who will find in this book a wealth of detail and practical guidance. This unique resource will enable them to make practical decisions about the use of the various additives, fillers, and reinforcements specific to this family of materials. ABOUT THE AUTHOR Michael Tolinski is a freelance writer and a lecturer at the University of Michigan's College of Engineering. He is a frequent contributor to Plastics Engineering and Manufacturing Engineering. Structured to make it easy for the reader to find solutions for specific property requirements Contains a number of short case studies about companies that have used or developed a particular additive to achieve a desired result Covers environmental resistance, mechanical property enhancement, appearance enhancement, processing aids, and other modifications of form and function
Handbook of Polyolefins Cornelia Vasile 2000-06-21 A handbook on polyolefins. This second edition includes new material on the structure, morphology and properties of polyolefin (PO) synthesis. It focuses on synthetic advances, the use of additives, special coverage of PO blends, composites and fibres, and surface treatments. It also addresses the problem of interfacial and superficial phenomena.
Handbook of Plastic Foams Arthur H. Landrock 1995-12-31 This book is intended to be a source of practical information on all types of plastic foams (cellular plastics) in use, including the new structural plastic foams. Elastomer (rubber-like) foams are also considered. The book is intended primarily for those who require a non-theoretical, authoritative, easy-to-use handbook in the subject area. It should be of value to materials engineers, plastics fabricators, chemists, chemical engineers and students. Recognized authorities have written several chapters and parts of chapters in their fields of expertise. The book is organized in such a way that information on a desired subject can be found rapidly. An unusual feature is a comprehensive listing of all known standardization documents (test methods, practices, and specifications), including some international standards. Each document includes a brief description of its contents.
Fluid Cracking Catalysts Mario L. Occelli 1998-01-05 Reviews recent accomplishments in the field of fluid cracking catalysts (FCC). Discusses the development of more specialized and effective catalysts and processes as well as the modification of current technology to meet future challenges in fuel refining. Written by nearly 50 internationally recognized experts from academia and industry.
Failure of Plastics Witold Brostow 1986-01 This is a complete reference on the mechanical failure of plastics. It explores aspects of the problem, which is a concern to engineers in the polymer industry and researchers working to improve materials. Covering both theory and practice, this book also provides directions for future work toward elimination of mechanical failure of plastics under varied conditions, including environmental factors (e.g. load, influence of various gases and liquid media, temperature, and more).
ESD Design and Analysis Handbook James E. Vinson 2003 Electrostatic Discharge is a pervasive issue in the semiconductor industry affecting both manufacturers and users of semiconductors. This easy-to-read, practical handbook presents an overview of ESD as it effects electronic circuits and provides a concise introduction for students, engineers, circuit designers and failure analysts.
The Ski Mask Way 50 Cent 2007-01-09 Hoping to start his life over after his prison release, ladies' man Seven finds himself tempted by the fast money of the drug trade when his day job fails to provide his desired lifestyle, a circumstance for which he teams up with a fellow ex-con for a high-stakes operation. Original. 60,000 first printing.
Extrusion Dies for Plastics and Rubber Christian Hopmann 2017-04-10 This definitive book provides a comprehensive account of the full range of dies used for extrusion of plastics and elastomers. The distinctive features of the various types of dies are described in detail. Expert advice on the configuration of dies is given, and the possibilities of computer-aided design, as well as its limitations, are demonstrated. Fundamentals and computational procedures are clearly explained so that no special prior knowledge of the subject is required. The mechanical configuration, handling, and maintenance of extrusion dies are described. Calibration procedures for pipes and profiles are also discussed. This book was written for plastics engineers who need daily support in their practical work in industry and science, as well as for students preparing for their professional life. The 4th edition is brought up to date with several important additions, including coverage of multilayer (>15 layer) dies, melt encapsulation, and simulation tools (rheological/thermal CFD simulations).
Plastics Additives Handbook Hans Zweifel 2009 Plastics without additives are not viable. Additives are essential to make plastics processable and to assure their end-use properties. The demands on additives have continued to evolve, not only because of changes in processing conditions and production techniques but also because plastics are being used in more demanding applications. This revised and updated edition, described earlier by one reviewer as the "bible" for anyone involved in the chemistry and technology of plastics additives, again provides an excellent overview of the complex science and technology of plastics additives and their industry. It offers guidance for all professionals involved in the development of new thermoplastic resin grades and novel end-use applications.
Polymer Melt Processing Morton M. Denn 2008-08-04 Most of the shaping in the manufacture of polymeric objects is carried out in the melt state, as it is a substantial part of the physical property development. Melt processing involves an interplay between fluid mechanics and heat transfer in rheologically complex liquids, and taken as a whole it is a nice example of the importance of coupled transport processes. This book is on the underlying foundations of polymer melt processing, which can be derived from relatively straightforward ideas in fluid mechanics and heat transfer; the level is that of an advanced undergraduate or beginning graduate course, and the material can serve as the text for a course in polymer processing or for a second course in transport processes.
Handbook of Plasticizers George Wypych 2017-01-14 Handbook of Plasticizers, Third Edition, is an essential professional reference, providing information that enables R&D scientists, production chemists, and engineers the information they need to use plasticizers more effectively, and to avoid certain plasticizers in applications where they may cause health or material durability problems. Plasticizers are vital to the plastics industry, particularly in improving the properties of materials such as PVC. Plasticizers are commonly added to complex mixtures containing a variety of materials, so successful incorporation requires a broad understanding of the mechanisms of plasticizer action, and compatibility with different materials and blends. There is a large selection of commercial plasticizers, and various environmental issues which impact on selection decisions. The book discusses new and historical approaches to the use of plasticizers, explaining mechanisms of plasticizers' action and their behavior in plasticized systems. It goes into detail on the use of plasticizers in a range of specific polymers, polymer blends, and other industrial products. This includes coverage of the impact of plasticizers on processing. George Wypych provides the data and know-how from the most recent sources and updated information required by engineers and scientists working in the plastics industry and the many industry sectors that use plastics in their products. The book covers the uses, advantages, and disadvantages of plasticizers, historical and theoretical background, their effects on process conditions, and health, safety, and environmental issues. Enables materials scientists, chemists and engineers to use plasticizers more effectively, and avoid health and safety or performance risks Includes detailed coverage of the impact of plasticizers on polymers, and processing methods Provides the broad background of information required to select the correct plasticizer for any application Covers the uses, advantages, and disadvantages of plasticizers, including historical and theoretical background
Bubble in the Sun Christopher Knowlton 2020-01-14 Christopher Knowlton, author of Cattle Kingdom and former Fortune writer, takes an in-depth look at the spectacular Florida land boom of the 1920s and shows how it led directly to the Great Depression. The 1920s in Florida was a time of incredible excess, immense wealth, and precipitous collapse. The decade there produced the largest human migration in American history, far exceeding the settlement of the West, as millions flocked to the grand hotels and the new cities

that rose rapidly from the teeming wetlands. The boom spawned a new subdivision civilization—and the most egregious large-scale assault on the environment in the name of “progress.” Nowhere was the glitz and froth of the Roaring Twenties more excessive than in Florida. Here was Vegas before there was a Vegas: gambling was condoned and so was drinking, since prohibition was not enforced. Tycoons, crooks, and celebrities arrived en masse to promote or exploit this new and dazzling American frontier in the sunshine. Yet, the import and deep impact of these historical events have never been explored thoroughly until now. In Bubble in the Sun Christopher Knowlton examines the grand artistic and entrepreneurial visions behind Coral Gables, Boca Raton, Miami Beach, and other storied sites, as well as the darker side of the frenzy. For while giant fortunes were being made and lost and the nightlife raged more raucously than anywhere else, the pure beauty of the Everglades suffered wanton ruination and the workers, mostly black, who built and maintained the boom, endured grievous abuses. Knowlton breathes dynamic life into the forces that made and wrecked Florida during the decade: the real estate moguls Carl Fisher, George Merrick, and Addison Mizner, and the once-in-a-century hurricane whose aftermath triggered the stock market crash. This essential account is a revelatory—and riveting—history of an era that still affects our country today.

Physics of the Human Body Irving P. Herman 2016-01-09 This book comprehensively addresses the physics and engineering aspects of human physiology by using and building on first-year college physics and mathematics. Topics include the mechanics of the static body and the body in motion, the mechanical properties of the body, muscles in the body, the energetics of body metabolism, fluid flow in the cardiovascular and respiratory systems, the acoustics of sound waves in speaking and hearing, vision and the optics of the eye, the electrical properties of the body, and the basic engineering principles of feedback and control in regulating all aspects of function. The goal of this text is to clearly explain the physics issues concerning the human body, in part by developing and then using simple and subsequently more refined models of the macrophysics of the human body. Many chapters include a brief review of the underlying physics. There are problems at the end of each chapter; solutions to selected problems are also provided. This second edition enhances the treatments of the physics of motion, sports, and diseases and disorders, and integrates discussions of these topics as they appear throughout the book. Also, it briefly addresses physical measurements of and in the body, and offers a broader selection of problems, which, as in the first edition, are geared to a range of student levels. This text is geared to undergraduates interested in physics, medical applications of physics, quantitative physiology, medicine, and biomedical engineering.

Handbook of Polymeric Foams and Foam Technology Daniel Klempner 2004 Describing all classes of polymeric foams, including their chemistry, synthesis, commercial production methods, properties, and applications, this handbook is designed to support engineers in their effort to develop practical solutions for industrial design and manufacturing challenges.

Mapping the Bones Jane Yolen 2018-03-06 From the best-selling and award-winning author of The Devil's Arithmetic, Jane Yolen, comes her first Holocaust novel in nearly thirty years. Influenced by Dr. Mengele's sadistic experimentations, this story follows twins as they travel from the Lodz ghetto, to the partisans in the forest, to a horrific concentration camp where they lose everything but each other. It's 1942 in Poland, and the world is coming to pieces. At least that's how it seems to Chaim and Gittel, twins whose lives feel like a fairy tale torn apart, with evil witches, forbidden forests, and dangerous ovens looming on the horizon. But in all darkness there is light, and the twins find it through Chaim's poetry and the love they have for each other. Like the bright flame of a Yahrzeit candle, his words become a beacon of memory so that the children and grandchildren of survivors will never forget the atrocities that happened during the Holocaust. Filled with brutality and despair, this is also a story of poetry and strength, in which a brother and sister lose everything but each other. Nearly thirty years after the publication of her award-winning and bestselling The Devil's Arithmetic and Briar Rose, Yolen once again returns to World War II and captivates her readers with the authenticity and power of her words. Praise for Mapping the Bones: "Jane Yolen's Mapping the Bones is a swift and deadly drama with overtones of dark fable we all wish we could forget. But this book, a shining star held in a trembling palm, requires us to remember." --Gregory Maguire, internationally bestselling author of Wicked "Mapping the Bones is spare and beautiful and haunting. Jane Yolen has created a masterpiece." --Kimberly Brubaker Bradley, New York Times bestselling author of The War That Saved My Life "Master storyteller Jane Yolen has outdone herself. This is a compelling, important, necessary, and timely book that deserves the widest audience possible." --Lesléa Newman, award-winning author of Still Life with Buddy "In the hands of the superb Jane Yolen, folklore and fact connect in a harrowing testimony to horror and to love. Brutal, relentless, prophetic, and full of truth." --Elizabeth Wein, New York Times bestselling author of Code Name Verity "A compassionate, unflinching, unforgettable Nazi labor camp Hansel & Gretel tale woven by America's finest spinner of Holocaust stories for young readers." --Julie Berry, author of the Printz Honor Book The Passion of Dolssa "[An] expansive, eloquent novel." --Publishers Weekly "Yolen does a superb job of dramatizing the horrors of WWII and the Holocaust, bringing vivid fear and suspense to her captivating story. It makes for altogether memorable and essential reading." --Booklist "[A] breath-taking and heartbreaking look at the horrors of war and the lengths people go to overcome." --Voice of Youth Advocates "Fans of Yolen's The Devil's Arithmetic will be engrossed in this story until the last page." --School Library Journal "[A] well-rounded story of a very difficult time that shows the resiliency of these young people." --School Library Connection

Plastics Materials J. A. Brydson 1975

The Morning Watch Anonymous 2018-10-07 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Nonlinear Phenomena in Flows of Viscoelastic Polymer Fluids A.I. Leonov 2012-12-06 This monograph presents theoretical and experimental studies of flows of elastic liquids. Falling into this category are particularly the melts and concentrated solutions of such flexible-chain polymers as polyethylene, polyisobutylene and polypropylene, all of which are widely used in polymer processing. These polydisperse polymers vary greatly, from batch to batch, in their mechanical properties and 20% variation in a property is believed to be good enough. l 7 All recent books - devoted to the rheology of polymers do not answer the question of which constitutive equations should be used for solving the fluid mechanic problems of polymer processing in the usual case of an appreciable nonlinear region of deformation where nonlinear effects of shear and extensional elasticity are very important. Viscoelastic constitut ive equations cited commonly (see, e.g. Refs 5 and 6) do not describe simultaneously even the simplest cases of deformations, viz. simple shear and uniaxial extension. Moreover, some of them are internally inconsist ent and sometimes display highly unstable behaviour in simple flows without any fundamental reasons. Even more respected molecular ap free from these defects.

Egg-processing Plant 1971

Thermoplastic Foams James L. Throne 1998-06-01 The result of nearly three decades of foam process and product experience, this book covers the applications and theory of this successful and commercial type of foam.