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"PETplanet insider is publishing extracts from successive chapters of Ottmar Brandau's "Bottles, Preforms and Closures," which was first published by hbmedia. A newly revised edition is reissued under the Elsevier imprint." --PETplanet insider, April 2014

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With the acquisition of Boxmore Packaging, ALPLA adds an extensive portfolio of beverage preforms and complimentary closures in Sub-Saharan Africa to already impressive global beverage portfolio supplying bottles, preforms and closures to leading brands in water, soft drinks and dairy across the globe. The result is that we are now able to supply the South African and Southern African region with over 2 billion closures annually.

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As a consultant to the plastics industry, Ottmar Brandau's focus is on using his engineering knowhow and production management experience to improve quality and productivity, cut down cycle time and introduce secondary processes such as inline printing. This book is a thoroughly practical handbook that provides engineers and managers with the toolkit to improve production and engineering aspects in their own businesses - saving money, increasing output and improving competitiveness by adopting new technologies. In this book, Brandau covers the engineering aspects of bottle production and the relevant production processes (focusing on blow molding), along with plant layout and organization and production management, to produce the definitive handbook for engineers and managers alike. Learn the

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tricks of the trade from an experienced engineer and manager Save money: Practical strategies to improve cycle times Increase productivity: Improve plant layout and organization and implement secondary processes such as inline printing

Stretch Blow Molding, Third Edition, provides the latest on the blow molding process used to produce bottles of the strength required for carbonated drinks. In this updated handbook, Ottmar Brandau introduces the technology of stretch blow molding, explores practical aspects of designing and running a production line, and looks at practical issues for quality control and troubleshooting. As an experienced engineer, manager, and consultant, Brandau's focus is on optimizing the production process, improving quality, and reducing cycle time. In this new edition, the author has thoroughly reviewed the content of the book, providing updates on new developments in stretch blow molding, including neck sizes, new equipment and processes, and the economics of the process. The book is a thoroughly practical handbook which provides engineers and managers with the toolkit to improve production and engineering aspects in their own businesses, allowing them to save money, increase output, and improve competitiveness by adopting new technologies. Provides knowledge and understanding of the latest technological and best practice developments in stretch blow molding Includes money saving, practical strategies to optimize the production process, improve quality, and reduce cycle times Provides a guide to the training of operators, as well as tactics on how to troubleshoot when products are faulty, productivity is low, or machinery is not operating as expected

Radiation processing is widely employed in plastics engineering to enhance the physical properties of polymers, such as chemical resistance, surface properties, mechanical and thermal properties, particle

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size reduction, melt properties, material compatibility, fire retardation, etc. Drobny introduces readers to the science of ionizing radiation and its effects on polymers, and explores the technologies available and their current and emerging applications. The resulting book is a valuable guide for a wide range of plastics engineers employing ionizing radiation for polymer treatment in a range of sectors including packaging, aerospace, defense, medical devices and energy applications. Radiation resistant polymers are also explored. Unlock the potential of ionizing radiation in applications such as electron-beam curing and laser joining Gain an understanding of the selection and safe use of radiation treatment equipment The only detailed guide to ionizing radiation written for the plastics engineering community

The value of the groceries purchases in the USA is over \$500 billion annually, most of which is accounted for by packaged foods. Plastic packaging of foods is not only ubiquitous in developed economies, but increasingly commonplace in the developing world, where plastic packaging is instrumental in decreasing the proportion of the food supply lost to spoilage. This new handbook is a combination of new material and updated chapters, chosen by Dr. Sina Ebnesajjad, from recently published books on this subject. Plastic Films in Food Packaging offers a practical handbook for engineers, scientists and managers working in the food packaging industry, providing a tailor-made package of science and engineering fundamentals, best practice techniques and guidance on new and emerging technologies. By covering materials, design, packaging processes, machinery and waste management together in one book, the authors enable the reader to take a lifecycle approach to food packaging. The Handbook addresses questions related to film grades, types of packages for different types of foods, packaging technologies, machinery and waste management. Additionally the book provides a review of new and emerging technologies. Two chapters cover the development of barrier

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films for food packaging and the regulatory and safety aspects of food packaging. Essential information and practical guidance for engineers and scientists working at all stages of the food packaging lifecycle: from design through manufacture to recycling Includes key published material on plastic films in food packaging, updated specifically for this Handbook, and new material on the regulatory framework and safety aspects Coverage of materials and applications together in one handbook enables engineers and scientists to make informed design and manufacturing decisions

Annotation An essential reference for engineers, scientists and product designers that already work with polymers and plastics who wish to convert to a sustainable plastic. It covers the properties, synthesis and polymerisation of PLA and processing techniques involved in fabricating parts from this polymer.

Packaging plays an essential role in protecting and extending the shelf life of a wide range of foods, beverages and other fast-moving consumer goods. There have been many key developments in packaging materials and technologies in recent years, and Trends in packaging of food, beverages and other fast-moving consumer goods (FMCG) provides a concise review of these developments and international market trends. Beginning with a concise introduction to the present status and trends in innovations in packaging for food, beverages and other fast-moving consumer goods, the book goes on to consider modified atmosphere packaging and other active packaging systems, including smart and intelligent packaging, and the role these play in augmenting and securing the consumer brand experience. Developments in plastic and bioplastic materials and recycling systems are then discussed, followed by innovations and trends in metal, paper and paperboard packaging. Further chapters review international environmental and sustainability regulatory and legislative frameworks, before the use of

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nanotechnology, smart and interactive packaging developments for enhanced communication at the packaging/user interface are explored. Finally, the book concludes by considering potential future trends in materials and technologies across the international packaging market. With its distinguished editor and international team of expert contributors, Trends in packaging of food, beverages and other fast-moving consumer goods (FMCG) is an important reference tool, providing a practical overview of emerging packaging technologies and market trends for research and design professionals in the food and packaging industry, and academics working in this area. Introduces the present status, current trends and new innovations in the field whilst considering future trends in materials and technologies Considers modified atmosphere packaging and other active packaging systems including smart and intelligent packaging Discusses developments in plastic and bioplastic materials and recycling systems

The complete and authoritative guide to modern packaging technologies [updated and expanded From A to Z, The Wiley Encyclopedia of Packaging Technology, Third Edition covers all aspects of packaging technologies essential to the food and pharmaceutical industries, among others. This edition has been thoroughly updated and expanded to include important innovations and changes in materials, processes, and technologies that have occurred over the past decade. It is an invaluable resource for packaging technologists, scientists and engineers, students and educators, packaging material suppliers, packaging converters, packaging machinery manufacturers, processors, retailers, and regulatory agencies. In addition to updating and improving articles from the previous edition, new articles are also added to cover the recent advances and developments in packaging. Content new to this edition includes: Advanced packaging materials such as antimicrobial materials, biobased materials, nanocomposite materials, ceramic-coated films, and perforated films Advanced packaging technologies such as active

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and intelligent packaging, radio frequency identification (RFID), controlled release packaging, smart blending, nanotechnology, biosensor technology, and package integrity inspection Various aspects important to packaging such as sustainable packaging, migration, lipid oxidation, light protection, and intellectual property Contributions from experts in all-important aspects of packaging Extensive cross-referencing and easy-to-access information on all subjects Large, double-column format for easy reference

This comprehensive, long-needed reference provides the thorough understanding required to modify and manipulate rigid PVC's thermal/shear sensitivity and rheological properties, helping you utilize rigid PVC most effectively in manufacturing applications as diverse as pipes, house siding, bottles, window frames, and packaging films. With complete, up-to-the-minute coverage in one convenient source, *Engineering with Rigid PVC* encompasses rheological principles, resin properties, and additive modification, as well as polymer preparation, melt processing, and forming techniques ... major conversion operations and their manufacturing applications—including actual commercial formulations and processes ... quality control procedures necessary to monitor compounding processes ... aspects of processability critical for product development and improvement ... and much more. International in scope, this time- and money-saver is an essential daily resource for all professionals involved in *Engineering with Rigid PVC*, including plastics engineers, polymer chemists, process engineers, and plastics processors and technicians. Furthermore, the volume is ideal for training programs and professional seminars, and is an outstanding supplement for students in polymer chemistry, materials

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science , and plastics engineering.

The market for carbonated beverages has grown dramatically over recent years in most countries, and this growth has required changes in the way factories are run. Like other food products, soft drinks are required to be produced under stringent hygiene conditions. Filling technology has progressed rapidly to meet the needs of manufacturers and consumers alike. Packaging choices have changed and there have been improvements in closure design. This book provides an overview of carbonated soft drinks production in the early part of the twenty first century, presenting the latest information on carbonation and filling methods. There are also chapters on bottle design, can making, general packaging considerations, production and distribution. A final chapter deals with quality assurance, and environmental and legislative issues. Detailed references provide opportunity for further reading in more specialised areas. The book is aimed at graduates in food science, chemistry, microbiology and engineering who are considering a career in the soft drinks industry, as well as technical staff already employed within the industry and associated suppliers.

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