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Better Packaging Better World
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Containers and Packaging

JESUS AYERS

Drug & Pharmaceutical Packaging Materials
Duke University Press
This book provides valuable information on a range of food packaging topics. It serves as a source for students, professionals and packaging engineers who need to know more about the characteristics, applications and consequences of different packaging materials in food-packaging interactions. This book is divided into 13 chapters and focuses on the agro-food, cosmetics and pharmaceutical sectors. The first four chapters cover traditional packaging materials:

wood, paper and cardboard, glass and metal. The next two deal, respectively, with plastics and laminates. Biobased materials are then covered, followed by a presentation of active and smart packaging. Some chapters are also dedicated to providing information on caps and closures as well as auxiliary materials. Different food packaging methods are presented, followed by an investigation into the design and labelling of packaging. The book ends with a chapter presenting information on how the choice of packaging material is dependent on the characteristics of the food products to be packaged.

Innovations in Glass Packaging for Food and Drinks CRC Press

Pharmaceutical Packaging Handbook provides a complete overview of the role that packaging plays in the development and delivery of pharmaceuticals and medical devices. Supplying a thorough examination of the industry in size and scope, the book covers drug dosage forms, vaccines, biologically produced products, and medical foods. Features: Discusses how packaging is designed and integrated into the product development cycle Provides an overview of the regulatory environment procedures Describes the materials used to package pharmaceuticals, including glass, metal, plastics, flexible films, rubber, and elastomers Examines new hybrids

used for packaging Explores the processing techniques used with the materials to produce pharmaceutical containers Discusses some of the strengths and weaknesses of the processes used for container fabrication Explains retort, aseptic, gas, and radiation sterilization of product Reviews labeling and design for pharmaceuticals, including how labels are produced, materials used, and production techniques Complete and straightforward, the book lists information in an easy to follow fashion, making it a complete standalone reference for anyone working in the pharmaceutical industry.

193 Packaging products Businesses Instituto de Embalagens LTDA Dated December 2005.

Pharmaceutical Packaging Sanex Packaging Connections Pvt Limited

As was the case with Charles Ross's Packaging of Pharmaceuticals published by the UK Institute of Packaging in 1975 it is assumed that the reader of this book already has a broad understanding of the basics of packaging. If not the Packaging Users Handbook and the Handbook of Food Packaging are recommended. The packaging needs of pharmaceuticals are different in degree only from those of other perishable products such as processed foods. Because the required action of a medication can be nullified by any deterioration in its active principles the protection

required from its packaging is at least an order of magnitude greater than that needed by foods for example. Functional efficiency is therefore of prime importance. Conversely the need for the packaging to 'sell' the medication is much less, hence the graphics required need only provide the right 'image' for the product when presented for use in hospital or surgery. Even when on sale at the pharmacy the 'appeal' required is that of providing hygiene and confidence more than anything else. Thus, the textual requirements are paramount including traceability (batch numbers, date-coding etc) in case of recall; while striking appearance to attract customer attention is in lower key. And with the increase in malicious tampering nowadays recall is more frequent.

High-Altitude Testing and Evaluation of Liquid Pharmaceutical Glass and Plastic Bottles to Detect Leaks

Instituto de Embalagens LTDA

This paper discusses the impact on package integrity of high-altitude shipments of glass and plastic bottles. High altitudes are encountered when trucks travel over mountain passes and when cargo and feeder aircraft transport packages in nonpressurized or partially pressurized cargo holds. This is the second research study conducted on liquid product shipments. The first was done on liquid hazardous material combination

packaging. The testing of pharmaceutical packaging is critical since the integrity of the product may be compromised during shipping and handling. Current shipping tests performed in labs do not account for simultaneous pressure changes and vibration. This study shows that packages currently being used for shipments of liquid pharmaceuticals that are tested to existing ASTM and ISO shipping tests are often inadequate, and can result in a significant number of leakers. Testing under combined vibration and pressure is necessary to ensure integrity.

Life Cycle of Sustainable Packaging

DEStech Publications, Inc Life Cycle of Sustainable Packaging An expert review of packaging's role in sustainability and the environment In Life Cycle of Sustainable Packaging: From Design to End of Life, a team of distinguished researchers delivers an authoritative and accessible explanation of the role played by packaging in sustainable development and the circular economy. The book offers expansive coverage of every aspect of the packaging life cycle, from design to management and end of life. It is a holistic and integrated evaluation of packaging's environmental footprint. The authors show students and readers how to incorporate design and life cycle concepts into the development of sustainable packaging materials and help them understand critical

background information about pollution and risk management. They also provide readers with learning objectives and self-study questions for each chapter that help them retain and understand the ideas discussed in the book. Readers will also find: A thorough introduction to the role of packaging in sustainable development An in-depth examination of design thinking in the packaging design process, including the five stages of design thinking and innovation tools Comprehensive discussions of pollution and risk management, as well as soil, water, and air pollution Expansive treatments of global climate change, life cycle assessment, and municipal solid waste. Perfect for undergraduate and graduate students learning about sustainability and packaging, Life Cycle of Sustainable Packaging: From Design to End of Life will earn a place in the libraries of chemical, biochemical, plastics, materials science, and packaging engineers.

Quality assurance of pharmaceutical packaging materials Pharmamed Press

At a time when society started to naturally value the circular economy, many people began to rethink the use of glass packaging. This is an interesting return to concepts once lost in the process of popularization of ready-to-drink products. Because it is inert (it does not change the flavor, smell, or color of the packaged product, thus contributing to

consumers' health), glass packaging has gained prominence along with the wellness trend. In addition, flint containers also have the benefit of being transparent while the amber ones provide a barrier to light. In the perfumery segment, more than smell, the success of new fragrances depends on the design of the glass bottle. Some say that it is necessary to design the bottle with emotional ingredients, which encourage the consumer to see in the product an object of desire, before trying the fragrance. Glass packaging also delivers glamour and refinement to famous brands of spirits, premium mineral waters, and food. All types of packaging have their functions and applications and, of course, characteristics that differentiate them and make them more suitable for different moments of consumption. Glass packaging has a UNIQUE condition of reducing environmental impact: IT IS RETURNABLE. Glass has been present in packaging since the beginning. It is one of the oldest packaging materials in our history and, from the start, the fact that it is returnable, even before being reusable, makes it environmentally friendly. That is especially true when we can restrict the geographic area of supply. The reverse logistics process must be economically and environmentally sustainable, not to mention the social aspect. This solution democratizes consumption among

people with lower available income because products are more competitive and, therefore, consumers can afford them. In addition, the sector continues to invest in the use of recycled content and to conduct studies on reducing the weight of bottles. Better Glass Packaging. Better World!
Global Markets for Contract Pharmaceutical Manufacturing, Research and Packaging - Focus on Contract Packaging Frost & Sullivan
DIVAnthropological study of the globalization of pharmaceuticals and its effects on local cultures, health, and economics./div
Packaging of Pharmaceuticals and Healthcare Products
CRC Press
The global glass packaging market for food & drinks was valued at $26bn in the 2009. In Western Europe and the US, the market is fairly mature. However, growth in the industry will primarily come from the key emerging markets.
The Global Pharmaceutical Industry
Springer Science & Business Media
Part of a series based on an important global packaging meeting, which brings together packaging researchers from universities and industry, this book covers subjects such as: active/intelligent packaging, distribution packaging, medical, cosmetic and pharmaceutical packaging, food and agricultural packaging, and hazardous materials containers.
World Pharmaceutical

Packaging II William Andrew
Packaging technology has become a separate subject in pharmaceutical sciences due to its vital applications in preserving therapeutic efficacy of drugs. The subject was less understood earlier due to non-availability of complete information. This book presents detailed account in the form of a specialized book on the subject. Blisters and strips packaging are of growing importance and so a chapter is included on this topic. Parenteral, and ophthalmic products need sterilized packaging, therefore a chapter covering unique features for sterilizing packaging materials has been included. A chapter on regulatory aspects of Pharmaceutical packaging has also been added. Our Reader's demand motivated us to include a chapter on Blow-Fill-Seal (BFS) packaging technology in upcoming second edition of this book. Salient Features - Each chapter is arranged to facilitate the effortless flow of information in simple, motivating, and commonsensical approach. -Detailed physico-chemical information on raw material e.g. glass, plastic, polymers, metals etc. used in Pharmaceutical packaging is presented -More informative emphasize has been made on Pharmaceutical packaging design based on characteristic properties of materials used in packaging. -A chapter on quality control and stability testing of

packages explains the shelf-life concern aspects of the active pharmaceutical ingredient (API).
Anti-Counterfeiting Packaging Technologies in the Global Pharmaceutical and Food Industries John Wiley & Sons
Idea behind this book is to bring the innovations to wider group of professionals to meet the mission of packaging knowledge sharing and that too cost effectively. We feel that this publication will further fill the project pipelines of companies and improve the standards of packaging. Many professionals either do not have the access or time to go through so many innovations together. So we think this publication will fill that gap. Pharmaceutical Packaging is not a recent phenomenon. It is an activity closely associated with the evolution of society and, as such, can be tracked back to human beginnings. The nature, degree, and amount of Packaging at any stage of society's growth reflect the needs, cultural patterns, material availability, and technology of that society. The pace of the technological change in Packaging field is bringing new innovative packaging ideas and Pharmaceutical Packaging is not an exception. Society is changing daily; meeting new challenge, integrating new knowledge, accommodating new needs. These changes are inevitably reflected in the way we package, deliver and consume goods.

Pharmaceutical Packaging though a concept started from the evolution of civilization, meeting new challenges everyday making it necessary to keep innovating. Pharmaceutical Packaging is much specialised field. It is quite broad, encompassing, and multi-faceted task and quite challenging as it requires the application of a large amount of scientific and engineering expertise. Historically, packaging of pharmaceutical products has been done in two forms. One is unit dose packing and the second is multi dose packing. The most significant advance in the packaging of drugs used in hospitals was the introduction of the unit doses for oral medicines. Although strip packaging for an aspirin-based product (Aspro) started in 1927, some 20 years elapsed before the concept was widely used. During the early 1950s, some tablets and capsules were available packages individually into pockets in a continuous tube, and capsules were available packaged individually unto pockets in a continuous tube, the pockets being separated from each other by perforation in the foil strip. From this concept, the hospital unit dose evolved. The advantages are obvious: this form of packaging controls the dispensing and administering of a prescribed single dose of the correct drug at the right time, and it significantly reduced hospital errors, especially when prefilled disposable syringes came in use in the USA in the 1960s.

Blister packaging, first introduced in American hospitals, was an even greater improvement in safe dispensing. The tablet or capsule is visible through the 'blister' and the product can thus be recognized before the package is opened. Today both strip packs and blister packs are used world widely. Asia Pacific region is expected to show an increase in demand in the global pharmaceutical packaging market. It stated that North America held the largest market share in 2011. It held more than 30%, due to the huge demand for pharmaceutical packaging in Canada and the U.S. this dominance could soon be cut short by Asia Pacific, which is currently the fastest growing region in the pharmaceutical packaging market. By 2018, the region could effectively hold more than 25% of the market share. The market in Asia Pacific is expected to reach USD 20.63 billion by 2018. Development of innovative packaging that provides a combination of product protection, quality, security, tamper evidence and visual appeal to enhance consumer consumption and reduce counterfeiting and other malpractices is expected to boost the market within the forecast period

Ardagh International Holdings Limited and Redfearn Glass Limited (formerly Rexam Glass Barnsley Limited) The Stationery Office

The global glass packaging market for food & drinks was valued at $26bn in the 2009. In

Western Europe and the US, the market is fairly mature. However, growth in the industry will primarily come from the key emerging markets.

U.S. Medical and Pharmaceutical Packaging Markets John Wiley & Sons

Pharmaceutical packaging requires a greater knowledge of materials and a greater intensity of testing than most other packed products, not to mention a sound knowledge of pharmaceutical products and an understanding of regulatory requirements. Structured to meet the needs of the global market, this volume provides an assessment of a wide range of issues. It covers the entire supply chain from conversion of raw materials into packaging materials and then assembled into product packs. Integrating information from many drug delivery systems, the author discusses testing and evaluation and emphasizes traceability and the need to for additional safeguards.

Leading Players of the Global Pharmaceutical Industry M M Infocare

Aerosol Can Filling Machines 1. Market Overview: The global Aerosol Can Filling Machines market has witnessed substantial growth in recent years, driven by increasing demand for aerosol products across various industries such as personal care, pharmaceuticals, automotive, and household products. According to recent market research, the

aerosol can filling machines market is projected to grow at a CAGR of 6.5% from 2023 to 2028, reaching a market value of approximately USD 1.2 billion by 2028. 2. Market Segmentation: The aerosol can filling machines market can be segmented based on: a. Type: • Automatic Filling Machines • Semi-Automatic Filling Machines • Manual Filling Machines b. Capacity: • Up to 50 cans per minute • 50-100 cans per minute • Above 100 cans per minute c. End-use Industry: • Personal Care and Cosmetics • Pharmaceuticals • Automotive • Household Products • Paints and Coatings • Others 3. Regional Analysis: The market for aerosol can filling machines is geographically diverse, with key regions being: a. North America: • The United States and Canada have witnessed a steady demand for aerosol products, driving the need for efficient filling machines. The region is expected to maintain a significant market share owing to a well-established industrial base. b. Europe: • Countries like Germany, France, and the UK have a mature aerosol market, demanding advanced filling technologies. Strict environmental regulations are driving innovation in this region. c. Asia-Pacific: • The APAC region, especially China and India, is experiencing rapid industrialization and urbanization, leading to an increased demand for aerosol products. This, in turn, fuels the need for

advanced filling machinery. d. Latin America and Middle East/Africa: • Emerging economies in these regions are witnessing a surge in consumer spending, contributing to the growth of the aerosol market and subsequently the filling machine market. 4. Market Drivers: a. Environmental Concerns: • The shift towards eco-friendly propellants and increasing awareness about sustainability are driving innovation in aerosol products and the filling machines that produce them. b. Technological Advancements: • Integration of automation, robotics, and IoT in filling machines enhances efficiency and reduces production time, thereby boosting demand. c. Growing Consumer Preferences: • The convenience and user-friendly nature of aerosol products are attracting consumers, leading to a surge in demand for filling machines. 5. Market Challenges: a. Regulatory Compliance: • Stringent regulations regarding aerosol products and their production, especially in developed regions, pose a challenge for manufacturers. b. Initial Investment: • High capital investment for advanced filling machines can be a barrier for small and medium-sized enterprises. 6. Opportunities: a. Emerging Markets: • Untapped markets in Asia-Pacific, Africa, and Latin America present significant growth opportunities for aerosol can filling machine manufacturers. b. Customization and

Flexibility: • Manufacturers can gain a competitive edge by offering machines that are adaptable to various can sizes and shapes. 7. Future Outlook: The aerosol can filling machines market is expected to continue its upward trajectory, driven by technological advancements, increasing environmental awareness, and expanding end-use industries. The market players are likely to focus on research and development to introduce innovative and sustainable filling solutions. Conclusion: The global aerosol can filling machines market is poised for substantial growth in the coming years. Key players in this industry should leverage technological advancements and capitalize on emerging markets to secure a competitive position. Adherence to environmental regulations and a customer-centric approach will be crucial in ensuring sustained success in this dynamic market.

When Glass Meets Pharma

The bilingual collection Embalagem Melhor, Mundo Melhor – Better Packaging, Better World - which already has twelve books - was born from the idea of covering all areas of knowledge involved in the development of packaging, from its conception to its arrival at the point of sale. It is also the result of the Instituto de Embalagens' belief: Better Packaging, Better World, which is its raison d'être, in the area of packaging teaching and

research. More than 17,000 professionals have already been trained with the books in the collection. The third edition, revised and updated, brings together the entire packaging system, from concepts to final disposal, including market, design, trends, innovations, materials, processes, equipment and the delicate issue of sustainability. Divided into six units, this book brings new chapters, such as packaging for organic products, packaging for e-commerce, polyester films, structures for flexible packaging, types of flexible packaging, lids, seals and accessories, steel closures, carton packaging, stretch and shrink films, coatings and barrier varnishes, paints, varnishes and adhesives for flexible packaging, inks, varnishes and adhesives for paper and paperboard packaging, color pattern control, testing for packaging, variable weight products and labeling machines. The quality and availability of the authors, who are experienced professionals, fully active in the industry, constitute a differential of the book, which approaches, in a simple and accessible way, the universe of the packaging industry for packaging converters and consumer products industries. A book such as this was only possible thanks to the expertise of the authors and the fact that they understood the high purpose of the mission to educate and share knowledge for the development of better packaging for a better world. The new book will

also have an e-book version: Portuguese and English. All the books in the collection are available on the same website platform, which is the collection's channel: www.betterpackagingbetterworld.com. With the commitment of disseminating knowledge and growth of the packaging sector, the Instituto de Embalagens is spreading its belief: Better Packaging, Better World.
Assunta Napolitano
Camilo Instituto de Embalagens Director
Pharmaceutical Packaging
When Glass Meets Pharma
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