

<<包装工程概论>>

图书基本信息

书名：<<包装工程概论>>

13位ISBN编号：9787502564063

10位ISBN编号：7502564063

出版时间：2005-1

出版时间：化学工业

作者：陈满儒

页数：250

字数：400000

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

<<包装工程概论>>

内容概要

本书根据国外最新的英语原版包装科技资料编写而成，内容基本覆盖了包装工程的主要学科领域。全书由5个单元，共20课组成，包括了包装发展史及包装的功能、包装材料和容器、包装印刷与装潢、包装动力学和运输包装、包装机械等内容。

另外，在书的最后，还对专业词汇及术语作了中文解释。

本书既可作为包装工程专业基础课的双语教学或专业英语教学用书，也可作为从事包装工程和相关专业的技术人员提高业务及其专业英语应用水平的学习参考书。

书籍目录

TABLE OF CONTENTS

UNIT ONE PERSPECTIVE ON PACKAGING? Lesson 1 A History of Packaging? What is Packaging?? Primitive Packaging? From Rome to the Renaissance? The Industrial Revolution? The Evolution of New Packaging Roles? Packaging in the Late 20th Century? Modern Packaging? Waste Management and Environmental Issues? The Modern Packaging Industry? Lesson 2 Packaging Functions? Introduction? The Contain Function? The Protect/Preserve Function? Food Preservation? The Transport Function? The Inform/Sell Function?

UNIT TWO PACKAGING MATERIALS AND CONTAINERS? Lesson 3 Paper and Paperboard? Introduction? Representative Papermaking Machines? Machine Direction and Cross Direction? Surface or Dry-End, Treatments and Coatings? Paper Characterization? Paper Types? Paperboard Grades? Paperboard Cartons? Lesson 4 Corrugated Fiberboard Boxes? Historical Perspective? Corrugated Board? Properties and Tests? Corrugated Boxes? Carrier Rules? Stacking and Compression? Lesson 5 Metal Containers? Background? Common Metal Container Shapes? Three-Piece Steel Cans? Two-Piece Cans? Impact Extrusion? Aerosols? Lesson 6 Glass Containers? Glass Types and General Properties? Bottle Manufacture? Bottle Design Features? Lesson 7 Plastics in Packaging? Introduction to Plastics? Extrusion? Injection Molding? Extrusion Blow Molding? Injection Blow Molding? Thermoforming? Other Forming Methods? Recognizing Molding Methods? Lesson 8 Flexible Packaging Laminates? Laminates? Aluminum Foil? Vacuum Metallizing? Other Inorganic Coating? Laminate Structural and Physical Properties? Flexible Bags, Pouches and Sachets? Sealability? Barrier Properties? Laminating Processes? Specifying Laminates? Examples of Laminates?

UNIT THREE PACKAGE PRINTING AND DECORATING? Lesson 9 Color? Introduction? Color Perception? Color Terminology? Viewing Color? Lesson 10 Graphic Design in Packaging? Introduction? Demographics and Psychographics? The Retail Environment? Fundamental Messages? Equity and Brand Names? Graphic Design Basics? Typography? Lesson 11 Package Printing? Introduction? Printing Methods? Relief Printing? Lithography? Gravure Printing? Comparing Flexography, Lithography and Gravure? Other Package Decoration Techniques? Printing Inks?

UNIT FOUR PACKAGING DYNAMICS AND DISTRIBUTION PACKAGING? Lesson 12 Shock, Vibration and Compression? Shock? Quantifying Shock Fragility? Cushioning Against Shock? Vibration? Compression? Estimating Required Compression Strength? Lesson 13 Mechanical Shock Theory? Introduction? The Free Falling Package? Mechanical Shock Theory? Shock Duration? Shock Amplification and the Critical Element? Lesson 14 Test Method for Product Fragility? Shock: Damage Boundary? Vibration: Resonance Search & Dwell? Lesson 15 Seven Steps for Cushioned Package Development? Introduction? Step 1 Determine Product Fragility? Step 2 Determine Conditions? Step 3 Calculate Cushion Requirements? Step 4 Recognizing Design Constraints? Step 5 Design Prototypes and Test? Step 6 Consider Vibration Effects? Step 7 Monitor Performance If it works, question it? Lesson 16 Distribution Packaging? Short History of Distribution Packaging in the USA? Functions and Goals of Distribution Packaging? The Cost of Packaging? The Package Design Process? Taking a Total System Approach to Package Design? The 10-Step Process of Distribution Packaging Design? A Final Check? Package Design Project Checklist? The Warehouse? Unit Loads? Lesson 17 Computer Aided Packaging System? Introduction to TOPS Pro? Using TOPS Pro?

UNIT FIVE PACKAGING MACHINERY? Lesson 18 General Overview? Automated Production? The New Production Line? Speed? Straight-Line and Rotary Systems? Changeovers? Machine Controls? Developing Custom Machinery? Upgrading Existing Equipment? Lesson 19 The Packaging Line? The Packaging Line? Line Organization? Packaging Materials? Machine Capabilities? Line Balancing? Material and Container Characteristics? Personnel? Lesson 20 Filling Systems? Introduction? Liquid Filling? Dry Product Filling

<<包装工程概论>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>