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**Energy Efficiency in Light-frame Wood Construction** Gerald E. Sherwood 1979

Cartons, Crates and Corrugated Board, Second Edition Diana Twede 2014-12-22 New expanded second edition with key technical, regulatory and marketing developments from the past 10 years in the packaging industryCovers the materials, processes, and design of virtually all paper and fiberboard packaging for end-products, displays, storage and distributionNew information on European and global standards, selection criteria for paperboard, as well as emerging sustainability initiativesExplains recent tests, measurements and costs with ready-to-use calculations Ten years ago, the first edition of Cartons, Crates and Corrugated Board quickly became the standard reference book for wood- and paper-based packaging. Endorsed by TAPPI and other professional societies and used as a textbook worldwide, the book has now been extensively revised and updated by a team formed by the original authors and two additional authors. While preserving the critical performance and design data of the previous edition, this second expanded edition offers new information on the technologies, tests and regulations impacting the paper and corrugated industries worldwide, with a special focus on Europe and Japan. New information has been added on tests and novel designs for folded cartons, as well as expanded discussions of paperboard selection for specific applications, emerging barrier packaging, food contact and migration,

and the dynamics and opportunities of corrugated in distribution systems. Recent developments on recycling and sustainability are also highlighted.

*U.S.D.A. Forest Service Research Paper FPL.* 1968

**Physical Testing of Paper** Roman E Popil 2017-12-12 This book reflects decades of the author's experience as a research scientist and lab manager providing industry clients, manufacturers, product developers, marketing and distribution organisations with data to answer queries regarding product quality concerns, variability, runnability, convertibility and printability. The basic principles underlying the various testing methods are used to illustrate how their interrelationships lead to validated findings and solving problems.This book covers the basic accepted standard industry mechanical tests supplemented by ultrasonic methods applied to examples of commercial and laboratory handsheet sample sets, presenting the testing technique, data and analysis. Focus is concentrated on the tests that are most frequently required, such as tensile and compression strengths, stiffness for papers and corrugated board, and relevant water absorption characteristics. It is aimed at the interested paper industry technologist or researcher at an introductory level who wishes to establish a fundamental understanding of what the physical testing results mean, how to avoid common pitfalls and most importantly, how to interpret the results from a paper physics point-of-view.

**Product Innovation and Eco-Efficiency** Judith E.M. Klostermann 2013-03-09 Prefaced by Björn Stigson, President of the World Business Council for Sustainable Development, this book is one of the few that treats this topic by putting representatives of industry at centre stage. The book systematically addresses the drivers, the tools, and sector-specific elements that play a role in this process. The five chapters in Part I are devoted to a general introduction to eco-efficiency and the related challenges to industry in its implementation. Part II contains 23 case studies, almost all written by industrial experts who tell how they deal with the challenge: what the motivators are, what tools can be used and how they can be implemented, and what are the specific elements in sectors like building, electronics and packaging. These contributions come from multinationals like Unilever, Procter & Gamble, Akzo Nobel, Philips and Ciba-Geigy, as well as small and medium sized enterprises from such sectors as the building and

furniture trades.

*Edgewise Compressive Strength of Corrugated Fiberboard as Determined by Local Instability* Russell Charles Moody 1965

*Technical Association of the Pulp and Paper Industry* 1971

**Design Tools and Methods in Industrial Engineering II** Caterina Rizzi 2021-12-01 This book gathers original papers reporting on innovative methods and tools in design, modelling, simulation and optimization, and their applications in engineering design, manufacturing and other relevant industrial sectors. Topics span from advances in geometric modelling, applications of virtual reality, innovative strategies for product development and additive manufacturing, human factors and user-centered design, engineering design education and applications of engineering design methods in medical rehabilitation and cultural heritage. Chapters are based on contributions to the Second International Conference on Design Tools and Methods in Industrial Engineering, ADM 2021, held on September 9–10, 2021, in Rome, Italy, and organized by the Italian Association of Design Methods and Tools for Industrial Engineering, and Dipartimento di Ingegneria Meccanica e Aerospaziale of Sapienza Università di Roma, Italy. All in all, this book provides academics and professionals with a timely overview and extensive information on trends and technologies in industrial design and manufacturing.

**Structural and Failure Mechanics of Sandwich Composites** L.A. Carlsson 2011-04-26 "Structural and Failure Mechanics of Sandwich Composites" by Leif A. Carlsson and George A. Kardomateas focuses on some important deformation and failure modes of sandwich panels such as global buckling, wrinkling and local instabilities, and face/core debonding. The book also provides the mechanics background necessary for understanding deformation and failure mechanisms in sandwich panels and the response of sandwich structural parts to a variety of loadings. Specifically, first-order and high-order sandwich panel theories, and three-dimensional elasticity solutions for the structural behavior outlined in some detail. Elasticity analysis can serve as a benchmark for judging the accuracy of simplified sandwich plate, shell and beam theories. Furthermore, the book reviews test methods developed for the characterization of the constituent

face and core materials, and sandwich beams and plates. The characterization of face/core debonding is a major topic of this text, and analysis methods based on fracture mechanics are described and applied to several contemporary test specimens. Test methods and results documented in the literature are included and discussed. The book will benefit structural and materials engineers and researchers with the desire to learn more about structural behavior, failure mechanisms, fracture mechanics and damage tolerance of sandwich structures.

**Mechanics of Cellulosic Materials** 1997

**Annual Book of ASTM Standards** ASTM International 2003

**Mechanics of Paper Products** Sören Östlund 2021-01-18 This book focuses on the mechanical properties and performance of products made of fiber-based materials. It helps students to develop skills for solving problems of product performance and engineering challenges in product development. Organized with a problem-based approach - practical examples of product performance are presented and the relevant mechanics are analyzed to deduce which material properties control the performance. The new edition covers state-of-the-art and green technologies as modeling of fiber networks and applications of nanocellulose.

**Tappi Journal** 1992

*Use of oak in linerboards* David W. Bormett 1981 In order to alleviate the increasing demand for softwoods, oak and pine pulps in varying ratios were investigated for linerboard use in corrugated containers. It was found that oak could be used in significant amounts in linerboard stock and, thus, provide an outlet for this currently underutilized species. Upon evaluating the combined boards and assembled containers it appeared that, when properly fabricated, at least 25 percent oak could be included and still satisfy today's required carrier rules. Considerably higher percentage of oak could be tolerated based on actual box performance despite somewhat lower combined board burst values. Scoreline fracturing for boards of any oak-pine ratio can be eliminated by proper adjustment of scorewheel

clearance and board moisture content. (Author).

Evaluation of Some Existing Empirical Equations for Top-to-bottom Compression Strength of Corrugated Fibreboard Boxes Salustiano Segovia Mirasol 1966

*Effect of paperboard stress-strain characteristics on strength of singlewall corrugated fiberboard* Thomas J. Urbanik 1981 The stress-strain relationship for paperboard loaded in edgewise compression relates to the strength of singlewall corrugated containers. This relationship can be approximated from the paperboard characteristics of stress measured at the maximum load and the initial modulus of elasticity. Based on typical characteristics for both linerboard and corrugating medium material a design matrix is constructed for a factorial analysis. Using a computer, various stress-strain relationships are paired together like they might be on the corrugator, and the theoretical effects of the stress-strain characteristics are investigated. Computer drawn design curves show how these linerboard and medium characteristics affect combined board edgewise compressive strength and box top-to-bottom compressive strength. The interaction between the stress-strain characteristics and paperboard thickness is used to suggest new criteria for evaluating paperboard. (Author).

*Handbook of Pulping and Papermaking* Christopher J. Biermann 1996-08-01 In its Second Edition, Handbook of Pulping and Papermaking is a comprehensive reference for industry and academia. The book offers a concise yet thorough introduction to the process of papermaking from the production of wood chips to the final testing and use of the paper product. The author has updated the extensive bibliography, providing the reader with easy access to the pulp and paper literature. The book emphasizes principles and concepts behind papermaking, detailing both the physical and chemical processes. A comprehensive introduction to the physical and chemical processes in pulping and papermaking Contains an extensive annotated bibliography Includes 12 pages of color plates

Computational and Experimental Simulations in Engineering Hiroshi Okada 2019-11-16 This book gathers the latest advances, innovations, and applications in the field of computational engineering, as presented by leading international researchers and engineers at the 24th International Conference on Computational

& Experimental Engineering and Sciences (ICCES), held in Tokyo, Japan on March 25-28, 2019. ICCES covers all aspects of applied sciences and engineering: theoretical, analytical, computational, and experimental studies and solutions of problems in the physical, chemical, biological, mechanical, electrical, and mathematical sciences. As such, the book discusses highly diverse topics, including composites; bioengineering & biomechanics; geotechnical engineering; offshore & arctic engineering; multi-scale & multi-physics fluid engineering; structural integrity & longevity; materials design & simulation; and computer modeling methods in engineering. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

A Handbook of Food Packaging Frank A. Paine 2012-12-06 This is the second edition of a successful title first published in 1983 and now therefore a decade out of date. The authors consider the development of the right package for a particular food in a particular market, from the point of view of the food technologist, the packaging engineer and those concerned with marketing. While the original format has been retained, the contents have been thoroughly revised to take account of the considerable advances made in recent years in the techniques of food processing, packaging and distribution. While efficient packaging is even more a necessity for every kind of food, whether fresh or processed, and is an essential link between the food producer and the consumer, the emphasis on its several functions has changed. Its basic function is to identify the product and ensure that it travels safely through the distribution system to the consumer. Packaging designed and constructed solely for this purpose adds little or nothing to the value of the product, merely preserving farm or processor freshness or preventing physical damage, and cost effectiveness is the sole criterion for success. If, however, the packaging facilitates the use of the product, is reusable or has an after-use, some extra value can be added to justify the extra cost and promote sales. Many examples of packaging providing such extra value can be cited over the last decade.

Optimum Fiber Distribution in Singlewall Corrugated Fiberboard Millard W. Johnson 1979 Determining optimum distribution of fiber through rational design of corrugated fiberboard could result in significant reductions in fiber required to meet end-use conditions, with subsequent reductions in price pressure and

extension of the softwood timber supply. Determining optimum distribution of fiber through rational design of corrugated fiberboard could result in significant reductions in fiber required to meet end-use conditions, with subsequent reductions in price pressure and extension of the softwood timber supply.

Effect of Loading Rate on the Edgewise Compressive Strength of Corrugated Fiberboard Russell Charles Moody 1966

**Paper and Paperboard Packaging Technology** Mark J. Kirwan 2008-04-15 This book discusses all the main types of packaging based on paper and paperboard. It considers the raw materials and manufacture of paper and paperboard, and the basic properties and features on which packaging made from these materials depends for its appearance and performance. The manufacture of twelve types of paper- and paperboard-based packaging is described, together with their end-use applications and the packaging machinery involved. The importance of pack design is stressed, and how these materials offer packaging designers opportunities for imaginative and innovative design solutions. Environmental and waste management issues are addressed in a separate chapter. The book is directed at those joining companies which manufacture packaging grades of paper and paperboard, companies involved in the design, printing and production of packaging, and companies which manufacture inks, coatings, adhesives and packaging machinery. It will be essential reading for students of packaging technology.

*Cardboard in Architecture* M. Eekhout 2008-01-17 The Department of Building Technology at the Faculty of Architecture at TU Delft is studying and developing cardboard as a potential building material on a broad, systematic and, where possible, comprehensive basis. The guiding research question is: “How can cardboard be used in both architectural and structural terms as a fully fledged building material, making use of the material-specific properties?” An exploratory phase from 2003 to 2005 – including an outdoor pilot structure (multi-shed), a pilot pavilion accommodating; an exhibition, workshops on resistance to fire and to damp, a first patent (KCPK), the design of an interior wall (Besin) and the publication of this book – was concluded by an international symposium attended by both the paper industry and the building industry. This publication comprises the report on that symposium.

*Appita* 1983

**Handbook of Physical Testing of Paper** Richard E. Mark 2002 Scientists from academic and the paper industry compile as many aspects of testing properties of paper as possible into a broad reference to help people who plan, specify, and evaluate the physical and mechanical testing of paper material take advantage of the many developments in recent years. An initial essay in each volume discusses the independent invention and widespread use of paper in Mesoamerica beginning sometime before AD 660. The two volumes are paged and indexed separately, but do not seem to be topically distinct. The first edition, Handbook of Physical and Mechanical Testing of Paper and Paperboard appeared in 1983; the second contains 30 chapters, a third of which are new and the others substantially revised, updated, and expanded. c. Book News Inc.

The Relation Between Edgewise Compression Strength and the Degree of the Angle Perpendicular to the Compressive Force of Corrugated Fibreboard James Francis Borg 1972

**U.S. Forest Service Research Note FPL** 1964

U.S. Forest Service Research Paper FPL. Forest Products Laboratory (U.S.) 1966

**Reliability Analysis of Fire-exposed Light-frame Wood Floor Assemblies** Frank E. Woeste 1980

**U.S. Forest Service Research Paper FPL.** 1965

**TAPPI Test Methods** 1998 Complete set of test methods including official, provisional, and classical.

**Mechanics of Paper Products** Kaarlo Niskanen 2012-01-01 This graduate level textbook focuses on the mechanical properties and performance of products made of fiber-based materials such as paper and board. The book aims to help students develop effective skills for solving problems of product performance and engineering challenges in new product development. Therefore the material is organized

with a problem-based approach - a practical example of product performance is presented and then the relevant mechanics are analyzed to deduce which material properties control the performance.

**Research Paper FPL** 1981

**Mathematical Modeling of Static Long-term Storage of Corrugated Boxes** Manoch Srinangyam 2003

*Technical Section Proceedings* Canadian Pulp and Paper Association. Technical Section 1993 Annual meeting held after the end of the calendar year covered by the proceedings.

*Handbook of Physical and Mechanical Testing of Paper and Paperboard* Richard E. Mark 1983 This incomparable work-the first part of a two volume set-offers the first cohesive, single source of information on paper testing, examining standard and nonstandard tests as well as scientific principles. It assembles the expertise of twenty international, active researchers working in industry, universities and laboratories.

*Protective Packaging for Distribution* Daniel Goodwin 2010-08 Supplies essential techniques needed for protective packaging Explains testing required for container performance Covers distribution packaging for food, healthcare, electronics, as well as hazardous and regulated materials Reviews basic math and physics fundamentals for students and professionals Protective Packaging Development offers a comprehensive practical explanation of the methods needed to improve packaging design in multiple distribution environments. It combines a clear presentation of protective packaging basics with details on how to obtain and apply experimental data to the design of new packaging. In this context it covers the materials, testing, regulations and manufacturing of a wide range of product and shipping containers. Written by two of the most respected packaging authorities in the U.S., the book covers packaging mathematics and physics in a clear step-by-step way and shows with numerous real-world examples how these concepts are applied to design strategies. In this unique book students and professionals are given the testing and data information required for creating a wide range of protective packaging systems within numerous product categories such as electronics, healthcare, and food. Also covered are container requirements and tests for hazardous and regulated materials.

*Annual Book of ASTM Standards* American Society for Testing and Materials 1998

**Handbook of Frozen Food Processing and Packaging** Da-Wen Sun 2016-04-19 Consumer demand for a year-round supply of seasonal produce and ready-made meals remains the driving force behind innovation in frozen food technology. Now in its second edition, Handbook of Frozen Food Processing and Packaging explores the art and science of frozen foods and assembles essential data and references relied upon by scientists in univ

Framework of Qualitative Relationships in Wood Utilization George Henry Englerth 1966