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Exposure During the Manufacture and Formulation of  
Pesticides Wood Flour, a General Statement of the  
Manufacture and Use of Wood Flour and the Status of the  
Industry Specifications for the Manufacture and Installation  
of Railroad Track Scales Suggestions for the Manufacture  
and Marketing of Creamery Butter in the South (Classic  
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Technology in Biopharmaceutical Manufacture Report on the  
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Practice of the Manufacture and Distribution of Coal Gas  
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and Processing of PVC Rapid Manufacturing Biographical  
History of the Manufacturers and Business Men of Rhode*

*Island, at the Opening of the Twentieth Century (Classic Reprint) A Practical Treatise on the Manufacture of Soaps The Manufacture of Boots and Shoes The Manufacture and Properties of Structural Steel Manufacturing Process Selection Handbook "Take the Profit Out of War!" Optimum Design and Manufacture of Wood Products Manufacturing Processes for Design Professionals Asian Noodle Manufacturing General Laws Relating to the Manufacture and Sale of Gas and Electricity - Scholar's Choice Edition Design for Manufacturing and Assembly History of the Manufacture of Iron in All Ages Advances in Composites Manufacturing and Process Design Regulations 60 Relative to the Manufacture, Sale, Barter, Transportation, Importation, Exportation, Delivery, Furnishing, Purchase, Possession, and Use of Intoxicating Liquor Under Title II of the National Prohibition Act of October 28, 1919*

*Since the third edition of this standard work in 1999, there has been a significant increase in the amount of chocolate manufactured worldwide. The fourth edition of Industrial Chocolate Manufacture and Use provides up-to-date coverage of all major aspects of chocolate manufacture and use, from the growing of cocoa beans to the packaging and marketing of the end product. Retaining the important and well-received key features of the previous edition, the fourth edition also contains completely new chapters covering chocolate crumb, cold forming technologies, intellectual property, and nutrition. Furthermore, taking account of significant changes and trends within the chocolate industry, much new information is incorporated, particularly within such chapters as those covering the chemistry of flavour development, chocolate flow properties, chocolate packaging, and chocolate marketing. This fully revised and expanded new edition is an essential purchase for all those involved in*

*the manufacture and use of chocolate. Asian Noodle Manufacturing: Ingredients, Technology, and Quality is a comprehensive handbook for the manufacture of noodles that includes traditional styles and gluten free and whole grain varieties. The book is split into three main sections, with the first detailing the ingredients in noodles and information on how ingredient functionality affects their processing. The second section details the actual manufacture and quality assurance in producing noodle products, with the final section detailing advances in varieties of noodles. Particular attention is paid to gluten free and whole grain noodles, both of which are becoming increasingly popular around the world. Written by an expert with over twenty years of experience in the production and quality assurance of noodles, the book is essential reading for those in the food industry who are tasked with the development of new noodle based products. Contains coverage of ingredient functionality in noodle processing Presents sections on traditional noodles, along with whole grain and gluten free varieties Presents the latest developments in processing technology Discusses how ingredients affect processes Includes information on quality control The manufacturing processes of composite materials are numerous and often complex. Continuous research into the subject area has made it hugely relevant with new advances enriching our understanding and helping us overcome design and manufacturing challenges. Advances in Composites Manufacturing and Process Design provides comprehensive coverage of all processing techniques in the field with a strong emphasis on recent advances, modeling and simulation of the design process. Part One reviews the advances in composite manufacturing processes and includes detailed coverage of braiding, knitting, weaving, fibre placement, draping, machining and drilling, and 3D composite processes. There are also highly informative*

chapters on thermoplastic and ceramic composite manufacturing processes, and repairing composites. The mechanical behaviour of reinforcements and the numerical simulation of composite manufacturing processes are examined in Part Two. Chapters examine the properties and behaviour of textile reinforcements and resins. The final chapters of the book investigate finite element analysis of composite forming, numerical simulation of flow processes, pultrusion processes and modeling of chemical vapour infiltration processes. Outlines the advances in the different methods of composite manufacturing processes Provides extensive information on the thermo-mechanical behavior of reinforcements and composite prepregs Reviews numerical simulations of forming and flow processes, as well as pultrusion processes and modeling chemical vapor infiltration 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 was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. 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. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. Since the

publication of the first edition of *Industrial Chocolate Manufacture and Use* in 1988, it has become the leading technical book for the industry. From the beginning it was recognised that the complexity of the chocolate industry means that no single person can be an expert in every aspect of it. For example, the academic view of a process such as crystallisation can be very different from that of a tempering machine operator, so some topics have more than one chapter to take this into account. It is also known that the biggest selling chocolate, in say the USA, tastes very different from that in the UK, so the authors in the book were chosen from a wide variety of countries making the book truly international. Each new edition is a mixture of updates, rewrites and new topics. In this book the new subjects include artisan or craft scale production, compound chocolates and sensory. This book is an essential purchase for all those involved in the manufacture, use and sale of chocolate containing products, especially for confectionery and chocolate scientists, engineers and technologists working both in industry and academia. The new edition also boasts two new co-editors, Mark Fowler and Greg Ziegler, both of whom have contributed chapters to previous editions of the book. Mark Fowler has had a long career at Nestle UK, working in Cocoa and Chocolate research and development – he is retiring in 2013. Greg Ziegler is a professor in the food science department at Penn State University in the USA. Hailed as a groundbreaking and important textbook upon its initial publication, the latest iteration of *Product Design for Manufacture and Assembly* does not rest on those laurels. In addition to the expected updating of data in all chapters, this third edition has been revised to provide a top-notch textbook for university-level courses in product Rapid Manufacturing is a new area of manufacturing developed from a family of technologies known as Rapid Prototyping. These processes

have already had the effect of both improving products and reducing their development time; this in turn resulted in the development of the technology of Rapid Tooling, which implemented Rapid Prototyping techniques to improve its own processes. Rapid Manufacturing has developed as the next stage, in which the need for tooling is eliminated. It has been shown that it is economically feasible to use existing commercial Rapid Prototyping systems to manufacture series parts in quantities of up to 20,000 and customised parts in quantities of hundreds of thousands. This form of manufacturing can be incredibly cost-effective and the process is far more flexible than conventional manufacturing. *Rapid Manufacturing: An Industrial Revolution for the Digital Age* addresses the academic fundamentals of Rapid Manufacturing as well as focussing on case studies and applications across a wide range of industry sectors. As a technology that allows manufacturers to create products without tools, it enables previously impossible geometries to be made. This book is abundant with images depicting the fantastic array of products that are now being commercially manufactured using these technologies. Includes contributions from leading researchers working at the forefront of industry. Features detailed illustrations throughout. *Rapid Manufacturing: An Industrial Revolution for the Digital Age* is a groundbreaking text that provides excellent coverage of this fast emerging industry. It will interest manufacturing industry practitioners in research and development, product design and materials science, as well as having a theoretical appeal to researchers and post-graduate students in manufacturing engineering, product design, CAD/CAM and CIM. *Manufacturing and Design* presents a fresh view on the world of industrial production: thinking in terms of both abstraction levels and trade-offs. The book invites its readers to distinguish between what is

*possible in principle for a certain process (as determined by physical law); what is possible in practice (the production method as determined by industrial state-of-the-art); and what is possible for a certain supplier (as determined by its production equipment). Specific processes considered here include metal forging, extrusion, and casting; plastic injection molding and thermoforming; additive manufacturing; joining; recycling; and more. By tackling the field of manufacturing processes from this new angle, this book makes the most out of a reader's limited time. It gives the knowledge needed to not only create well-producible designs, but also to understand supplier needs in order to find the optimal compromise. Apart from improving design for production, this publication raises the standards of thinking about producibility. Emphasizes the strong link between product design and choice of manufacturing process Introduces the concept of a "production triangle" to highlight tradeoffs between function, cost, and quality for different manufacturing methods Balanced sets of questions are included to stimulate the reader's thoughts Each chapter ends information on the production methods commonly associated with the principle discussed, as well as pointers for further reading Hints to chapter exercises and an appendix on long exercises with worked solutions available on the book's companion site:*

*<http://booksite.elsevier.com/9780080999227/> Excerpt from *Biographical History of the Manufacturers and Business Men of Rhode Island, at the Opening of the Twentieth Century* In Several lines of manufactures the State of Rhode Island leads the world, and in many it ranks second to none in the quality and volume of its productions. A large percentage of these goods find a ready market in foreign countries, and the century just opening promises a much wider foreign field for our business men to operate in. More than one-fourth of the*

population of the State are employed in manufacturing establishments, and a large per cent. Of these are classed among the most skilled artisans to be found in any country, many of them having been picked from among the best mechanics of Europe and induced to come to Rhode Island to labor in the various shops where the highest degree of skill is required in bringing out the kind of art productions that are made by the Gorham Manufacturing Company and others. It is not the object of this book to give a detailed account of the manufacturing and business conditions of the State, gleaned from sources of a more or less unreliable nature, that in many instances may have been the fountain heads of many glaring errors that have been perpetuated by many an honest writer because he accepted them as facts on account of their repeated use, but its object is this: To allow each individual manufacturer and business man to give an account of himself and his business in his own language, and as much as he deems advisable for the enlightenment of its readers in his particular line, thereby providing an original source of information that should prove more accurate and complete than any individual editor could possibly glean from material ordinarily at hand. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works. Reprint of the original, first published in 1864. Billed in early issues as "a practical



*journal of industrial progress", this monthly covers a broad range of topics in engineering, manufacturing, mechanics, architecture, building, etc. Later issues say it is "devoted to the advancement and diffusion of practical knowledge." A data-rich history of the manufacture and use of iron, from the ancient Egyptian period to late 19th-century America. This ten chapter book on the manufacture and processing of PVC covers bulk processing, paste, emulsion, blends, toxicity, morphology, rigid PVC and plasticised PVC. Excerpt from Suggestions for the Manufacture and Marketing of Creamery Butter in the South The first essential to successful creamery operation is efficient business management. Efficient business management requires a careful and accurate accounting of the finances and materials handled, the proper equipment of the creamery, the purchase of the right quality of material at the right price, the use of efficient and skillful methods of manufacturing, and the marketing of the products in such a manner that the largest net return is obtained. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works. Unlike some other reproductions of classic texts (1) We have not used OCR(Optical Character Recognition), as this leads to bad quality books with introduced typos. (2) In books where there are images such as portraits, maps, sketches etc We have endeavoured to keep the quality of*

these images, so they represent accurately the original artefact. Although occasionally there may be certain imperfections with these old texts, we feel they deserve to be made available for future generations to enjoy. Six Sigma is Business and Industry's newest recognized quality program. This text provides information and instructions for new and current quality professionals in order to help employ methods to attain Six Sigma defect quality assurance within their company. All areas of business and manufacture are covered. Detailed checklists, questionnaires and forms assist personnel in developing their own programs to 'prevent' problems from occurring and to solve new and long-term problems in services and manufacturing. Examples and formulae are provided for use to determine if, when and then how much a process may be adjusted for reaching higher quality assurance levels. Knowledgeable readers will be able to use this comprehensive text immediately in the workplace. Authoritative guide to the principles, characteristics, engineering aspects, economics, and applications of disposables in the manufacture of biopharmaceuticals The revised and updated second edition of Single-Use Technology in Biopharmaceutical Manufacture offers a comprehensive examination of the most-commonly used disposables in the manufacture of biopharmaceuticals. The authors—*noted experts on the topic*—provide the essential information on the principles, characteristics, engineering aspects, economics, and applications. This authoritative guide contains the basic knowledge and information about disposable equipment. The author also discusses biopharmaceuticals' applications through the lens of case studies that clearly illustrate the role of manufacturing, quality assurance, and environmental influences. This updated second edition revises existing information with recent developments that have taken place since the first edition was published. The book also presents

*the latest advances in the field of single-use technology and explores topics including applying single-use devices for microorganisms, human mesenchymal stem cells, and T-cells. This important book:*

- Contains an updated and end-to-end view of the development and manufacturing of single-use biologics*
- Helps in the identification of appropriate disposables and relevant vendors*
- Offers illustrative case studies that examine manufacturing, quality assurance, and environmental influences*
- Includes updated coverage on cross-functional/transversal dependencies, significant improvements made by suppliers, and the successful application of the single-use technologies*

*Written for biopharmaceutical manufacturers, process developers, and biological and chemical engineers, Single-Use Technology in Biopharmaceutical Manufacture, 2nd Edition provides the information needed for professionals to come to an easier decision for or against disposable alternatives and to choose the appropriate system. This interdisciplinary volume provides a critical and multi-disciplinary review of current manufacturing processes, practices, and policies, and broadens our understanding of production and innovation in the world economy. Chapters highlight how firms*

*The processes of manufacture and assembly are based on the communication of engineering information via drawing. These drawings follow rules laid down in national and international standards. The organisation responsible for the international rules is the International Standards Organisation (ISO). There are hundreds of ISO standards on engineering drawing because drawing is very complicated and accurate transfer of information must be guaranteed. The information contained in an engineering drawing is a legal specification, which contractor and sub-contractor agree to in a binding contract. The ISO standards are designed to be independent of any one language and thus*

much symbology is used to overcome any reliance on any language. Companies can only operate efficiently if they can guarantee the correct transmission of engineering design information for manufacturing and assembly. This book is a short introduction to the subject of engineering drawing for manufacture. It should be noted that standards are updated on a 5-year rolling programme and therefore students of engineering drawing need to be aware of the latest standards. This book is unique in that it introduces the subject of engineering drawing in the context of standards. In order to compete in the current commercial environment companies must produce greater product variety, at lower cost, all within a reduced product life cycle. To achieve this, a concurrent engineering philosophy is often adopted. In many cases the main realization of this is Design for Manufacture and Assembly (DFM/A). There is a need for in-depth study of the architectures for DFM/A systems in order that the latest software and knowledge-based techniques may be used to deliver the DFM/A systems of tomorrow. This architecture must be based upon complete understanding of the issues involved in integrating the design and manufacturing domains. This book provides a comprehensive view of the capabilities of advanced DFM/A systems based on a common architecture. Basic Manufacturing has already established itself as a core text for manufacturing courses in Further Education. The new edition has been revised to be fully in line with the new Vocational GCSE in Manufacturing from Edexcel, covering the three compulsory units of this scheme, and will continue to act as a core text for Intermediate GNVQ. Coverage of the two schemes is combined throughout the text, yet each chapter clearly illustrates which sections map to which units within the two scheme specifications. The author's approach is student-centred with self-check questions and activities provided throughout. As a result, the

book is well suited to independent study. It is also clearly written to appeal to students of all abilities. Review questions are provided at the end of each chapter to consolidate learning and give practice for external assessments. The third edition contains a brand new chapter to cater for the examinable part of the GCSE syllabus (Unit 3), which includes case studies in the six sectors covered in the scheme: food and drink/biological and chemical; printing and publishing/paper and board; textiles and clothing; engineering fabrication; mechanical/automotive engineering; electrical and electronic engineering/computer/process control/telecommunications. The book is an excellent, readable introduction to the technical and business aspects of the manufacturing industry that will be invaluable for students on a wide range of courses, including City and Guilds certificates. It also provides a good grounding for students embarking on higher-level programmes within Manufacturing. Roger Timings is one of the UK's leading authors of textbooks on manufacturing and engineering. Excerpt from *The Golden Aid: Or Money Making Directory, Containing Directions for Manufacturing and Preparing for Sale Some of the Best Selling Articles of the Day, as Well as a Large and Choice Collection of Recipes and Formulas for Manufacturing, Cooking, and Miscellaneous Purposes* In the preparation of this work we have made every exertion to embody within it a superior class of recipes. We have given special attention to arrange a collection of them in the first part, that are the most useful and valuable for manufacturing purposes; and while it has been our main object to place in the hands of those who answer our advertisement, and desire to engage in the business we offer, a suitable guide and instructor, we felt that it would most likely meet with general favor to include a variety of assorted recipes for domestic uses, so that in the event of any one

*giving an order for the book with a view of going into business, and should by some unforeseen occurrence abandon the design, or conclude from any reason whatever to not proceed any further, he, or she may have the satisfaction of feeling that the price of the book is not entirely lost, as it becomes very useful and is certainly unrivaled by few even for every day use in any household. For the sake of convenience we have divided the book into three parts: The first part comprises the manufacturers' department, and is specially calculated for those who may feel inclined to follow our directions with a view of business. There may be found however in the other parts recipes which are valuable to manufacture from, and may perhaps in some instances be preferred to those of the first. The second part, embracing the medical department, includes an assortment of recipes which will be found very useful in the cure of various diseases with which one may be most commonly afflicted. The liniments, salves, etc., made from the recipes of this department are the very best, and will sell readily. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works. An encyclopaedic guide to production techniques and materials for product and industrial designers, engineers, and architects. Today's product designers are presented with a myriad of choices when creating their work and preparing*

*it for manufacture. They have to be knowledgeable about a vast repertoire of processes, ranging from what used to be known as traditional "crafts" to the latest technology, to enable their designs to be manufactured effectively and efficiently. Information on the internet about such processes is often unreliable, and search engines do not usefully organize material for designers. This fundamental new resource explores innovative production techniques and materials that are having an impact on the design industry worldwide. Organized into four easily referenced parts—Forming, Cutting, Joining, and Finishing—over seventy manufacturing processes are explained in depth with full technical descriptions; analyses of the typical applications, design opportunities, and considerations each process offers; and information on cost, speed, and environmental impact. The accompanying step-by-step case studies look at a product or component being manufactured at a leading international supplier. A directory of more than fifty materials includes a detailed technical profile, images of typical applications and finishes, and an overview of each material's design characteristics. With some 1,200 color photographs and technical illustrations, specially commissioned for this book, this is the definitive reference for product designers, 3D designers, engineers, and architects who need a convenient, highly accessible, and practical reference. 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 was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. 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. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. How to rethink innovation and revitalize America's declining manufacturing sector by encouraging advanced manufacturing, bringing innovative technologies into the production process. The United States lost almost one-third of its manufacturing jobs between 2000 and 2010. As higher-paying manufacturing jobs are replaced by lower-paying service jobs, income inequality has been approaching third world levels. In particular, between 1990 and 2013, the median income of men without high school diplomas fell by an astonishing 20% between 1990 and 2013, and that of men with high school diplomas or some college fell by a painful 13%. Innovation has been left largely to software and IT startups, and increasingly U.S. firms operate on a system of "innovate here/produce there," leaving the manufacturing sector behind. In this book, William Bonvillian and Peter Singer explore how to rethink innovation and revitalize America's declining manufacturing sector. They argue that advanced manufacturing, which employs such innovative technologies as 3-D printing, advanced material, photonics, and robotics in the production process, is the key. Bonvillian and Singer discuss transformative new production paradigms that could drive up efficiency and drive down costs, describe the new processes and business models that must accompany them, and explore alternative funding methods for startups that



must manufacture. They examine the varied attitudes of mainstream economics toward manufacturing, the post-Great Recession policy focus on advanced manufacturing, and lessons from the new advanced manufacturing institutes. They consider the problem of “startup scaleup,” possible new models for training workers, and the role of manufacturing in addressing “secular stagnation” in innovation, growth, the middle classes, productivity rates, and related investment. As recent political turmoil shows, the stakes could not be higher. This monograph presents state-of-the-art knowledge in wood manufacturing design with a special focus on the elaboration of functional relationships. The authors transfer and apply the method of functional relationships to challenges in wood manufacturing, and the book contains many worked examples which help the reader to better understand the presented method. The topical spectrum includes machining processes, energy consumption, surface quality, hardness and durability properties as well as aesthetical properties. The target audience primarily comprises research experts and practitioners in wood manufacturing, but the book may also be beneficial for graduate students alike. Manufacturing Process Selection Handbook provides engineers and designers with process knowledge and the essential technological and cost data to guide the selection of manufacturing processes early in the product development cycle. Building on content from the authors’ earlier introductory Process Selection guide, this expanded handbook begins with the challenges and benefits of identifying manufacturing processes in the design phase and appropriate strategies for process selection. The bulk of the book is then dedicated to concise coverage of different manufacturing processes, providing a quick reference guide for easy comparison and informed decision making. For each process examined, the book considers key factors driving

*selection decisions, including: Basic process descriptions with simple diagrams to illustrate Notes on material suitability Notes on available process variations Economic considerations such as costs and production rates Typical applications and product examples Notes on design aspects and quality issues Providing a quick and effective reference for the informed selection of manufacturing processes with suitable characteristics and capabilities, Manufacturing Process Selection Handbook is intended to quickly develop or refresh your experience of selecting optimal processes and costing design alternatives in the context of concurrent engineering. It is an ideal reference for those working in mechanical design across a variety of industries and a valuable learning resource for advanced students undertaking design modules and projects as part of broader engineering programs. Provides manufacturing process information maps (PRIMAs) provide detailed information on the characteristics and capabilities of 65 processes in a standard format Includes process capability charts detailing the processing tolerance ranges for key material types Offers detailed methods for estimating costs, both at the component and assembly level*

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