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Industrial design graduate Florian Schmid made these stools by folding fabric that's impregnated with cement then drenching it in water. Called Stitching Concrete, the stools are made from a material called Concrete Canvas, which Dezeen featured in 2009. It consists of cement layered between fabric and a PVC backing. Once soaked it can be manipulated

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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.

'Materials and Design' offers an accessible and systematic approach to the selection of materials and the ways in which they can be used. The book is aimed at the industrial designer who may have limited technical support.

Furniture Design is a comprehensive guide and resource for students and furniture designers. As well as discussing pioneering contemporary and historical designs, it also provides substantive answers to designers' questions about function, materials, manufacture and sustainability, integrating guidance on all of these subjects – particularly material and

manufacturing properties, in one accessible and structured volume. Many leading contemporary furniture designers from around the world are included, with case studies carefully selected to highlight the importance of both material and manufacture-led design processes. The book is also intended to provide an insight into furniture design for those considering a university education in product and industrial design.

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

The rise of manufacturing intelligence is fuelling innovation in processes and products concerning a low environmental impact over the product's lifecycle. Sustainable intelligent manufacturing is regarded as a manufacturing paradigm for the 21st century, in the move towards the next generation of manufacturing and processing technologies. The manu

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/

In the world of product design, thousands of small bits of must-know information are scattered across a wide array of places. This book collects all the crucial information designers need to know on a daily basis and organizes it in one neat essential handbook. For designers to be able to make designs that work and endure and to ensure they are legal, they need to know-or be able to find-an endless number of details. Whether it's what kind of glue needs to be used on a certain surface, metric equivalents, thread sizes, or

how to apply for a patent, these details are essential and must be readily available so designers can create successful products efficiently. This book provides designers with a comprehensive handbook they can turn to over and over again. The author includes information that is essential to successful product design, including measurement conversions, information on trademark and copyright standards as well as patents and product-related intellectual property rights/standards, setting up files for prototyping and production runs, and manufacturing and packaging options to optimize the design.

Introducing a new engineering product or changing an

existing model involves developing designs, reaching economic decisions, selecting materials, choosing manufacturing processes, and assessing environmental impact. These activities are interdependent and should not be performed in isolation from each other. This is because the materials and processes used in making a product can have a major influence on its design, cost, and performance in service. This Fourth Edition of the best-selling Materials and Process Selection for Engineering Design takes all of this into account and has been comprehensively revised to reflect the many advances in the fields of materials and manufacturing, including: Increasing use of additive

manufacturing technology, especially in biomedical, aerospace and automotive applications Emphasizing the environmental impact of engineering products, recycling, and increasing use of biodegradable polymers and composites Analyzing further into weight reduction of products through design changes as well as material and process selection, especially in manufacturing products such as electric cars Discussing new methods for solving multi-criteria decision-making problems, including multi-component material selection as well as concurrent and geometry-dependent selection of materials and joining technology Increasing use of MATLAB by engineering students in solving problems This textbook features

the following pedagogical tools: New and updated practical case studies from industry A variety of suggested topics and background information for in-class group work Ideas and background information for reflection papers so readers can think critically about the material they have read, give their interpretation of the issues under discussion and the lessons learned, and then propose a way forward Open-book exercises and questions at the end of each chapter where readers are evaluated on how they use the material, rather than how well they recall it, in addition to the traditional review questions Includes a solutions manual and PowerPoint lecture materials for adopting professors Aimed at students in mechanical,

manufacturing, and materials engineering, as well as professionals in these fields, this book provides the practical know-how in order to choose the right materials and processes for development of new or enhanced products.