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This comprehensive reference on sheet metal forming and fabrication provides state-of-the-art reference information for product and production engineers. Coverage addresses all methods of sheet metal fabrication technologies, selection of equipment and die materials, specification of foiming practices for specific alloys, and new techniques for process design and control. This Volume provides you with practical reference information on the basic processes of press forming, drawing, bending, spinning, shearing, blanking, and piercing of sheet with additional coverage on forming with bar, tube, wire, shapes, or long parts. New content areas include: Expanded coverage on computer-based methods for process simulation and control Advanced high-strength steels (AHSS) forming and material developments Expanded coverage on the evaluation and mitigation of springback and the troubleshooting of formability problems Rapid prototyping and die-less flexible manufacturing techniques such as thermal forming and peen forming Updates on cold-work powder metallurgy tool steels and tool coatings Updates and addition of practical reference information on basic operations of bending, press forming, and press brake forming Application of tailor weld blanks New process related developments in superplastic forming and conventional forming of aluminum, titanium, nickel, magnesium, and refractory alloys Recent process modifications in hydroforming and high-velocity metal forming Contents Include: Introduction to Forming Processes Shearing, Cutting, Blanking, and Piercing Equipment for Forming of Sheet Metal Tooling and Fabrication for Forming Sheet, Strip, and Plate Forming Processes for Sheet, Strip, and Wire Sheet Forming of Specific Ferrous and Nonferrous Metals Formability Analysis Process Design and Modeling for Sheet Forming Reference Information Index

Following the long tradition of the Schuler Company, the Metal For ming Handbook presents the scientific fundamentals of metal forming technology in a way which is both compact and easily understood. Thus, this book makes the theory and practice of this field accessible to teaching and practical implementation. The first Schuler "Metal Forming Handbook" was published in 1930. The last edition of 1966, already revised four times, was translated into a number of languages, and met with resounding approval around the globe. Over the last 30 years, the field of forming technology has been rad ically changed by a number of innovations. New forming techniques and extended product design possibilities have been developed and introduced. This Metal Forming Handbook has been fundamentally revised to take account of these technological changes. It is both a text book and a reference work whose initial chapters are concerned to pro vide a survey of the fundamental processes of forming technology and press design. The book then goes on to provide an in-depth study of the major fields of sheet metal forming, cutting, hydroforming and solid forming. A large number of relevant calculations offers state of the art solutions in the field of metal forming technology. In presenting tech nical explanations, particular emphasis was placed on easily under standable graphic visualization. All illustrations and diagrams were compiled using a standardized system of functionally oriented color codes with a view to aiding the reader's understanding.

The ASM Handbook series contains peer-reviewed, trusted information in every area of materials specialization. The series is the industry's best known and most comprehensive source of information on ferrous and nonferrous metals and materials technology and is packed with more than 30,000 pages of articles, illustrations, tables, graphs, specifications and practical examples for today's engineer. Each complete set purchase includes the brand-new ASM Handbooks, Volumes 4B, 4C, 4D, and the Comprehensive Index, Third Edition.

Examines the types, microstructures and attributes of AHSSAlso reviews the current and future applications, the benefits, trends and environmental and sustainability issues.

Imagine transforming a flat sheet of aluminum alloy into an attractive hood scoop. Or designing and making your own aluminum wheel tubs, floorpan and dashboard for your street machine. How about learning to design and build your own body panels, manifolds, brackets and fuel tanks? These are just a few of the many tips and techniques shared by master metal craftsmen Ron Fournier. Author of HP's award-winning Metal Fabricator's Handbook, Fournier packs decades of experience designing and shaping sheet metal components for Indy cars, drag race cars, road racers, street rods and street machines into 144 pages. You'll find tips on: · Setting up your own shop · Selecting and using basic hand tools · Proper use of English wheels, beaders, rollers, brakes and power hammers · Pattern design and proper sheet metal selection · Basic metal shaping techniques · The art of hammer forming · Proper riveting techniques · And finally, tips on restoring original sheet metal Whether you're restoring a '32 Ford, constructing a race car, building a show-winning street rod or street machine, or perhaps developing your skills for work in the metal industry, you'll find the information in this book invaluable, and a perfect addition to any home automotive library.

Applied Metal Forming: Including FEM Analysis describes metal forming theory and how experimental techniques can be used to study any metal forming operation with great accuracy. For each primary class of processes, such as forging, rolling, extrusion, wiredrawing, and sheet-metal forming, it explains how FEA (Finite Element Analysis) can be applied with great precision to characterize the forming condition and in this way optimize the processes. FEA has made it possible to build very realistic FEM-models of any metal forming process, including complex three-dimensional forming operations, in which complex products are shaped by complex dies. Thus, using FEA it is now possible to visualize any metal forming process and to study strain, stresses, and other forming conditions inside the parts being manufactured as they develop throughout the process.

These volumes cover the properties, processing, and applications of metals and nonmetallic engineering materials. They are designed to provide the authoritative information and data necessary for the appropriate selection of materials to meet critical design and performance criteria.

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