

Eckart Doege - Bernd-Arno Behrens

Handbuch Umformtechnik

Grundlagen, Technologien, Maschinen

2. Auflage



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Handbuch Der Umformtechnik

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Handbuch der Umformtechnik Schuler GmbH, 2014-08-23

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Handbuch Umformtechnik Eckart Doege, Bernd-Arno Behrens, 2018-09-07 Das Handbuch Umformtechnik erscheint jetzt in der dritten Auflage Es ist ein hilfreiches Handwerkszeug für den Umformtechniker und beruht auf der kompakten und übersichtlichen Darstellung grundlegenden Wissens und komplexer Inhalte für die wissenschaftliche Arbeit und die industrielle Praxis Aktuelle Forschungsergebnisse sowie Erfahrungen aus über 50 Jahren universitärer Forschung und Lehre machen das Buch zu einem hilfreichen Handwerkszeug für den Umformtechniker Der Inhalt Nach einer ausführlichen Darstellung der plastomechanischen und tribologischen Grundlagen widmet sich das Buch der Blechumformung der Massivumformung sowie den Umformmaschinen in jeweils einem eigenständigen Kapitel Dabei werden u.a. aktuelle Technologien und Verfahren sowie Pressenantriebe vorgestellt Zahlreiche Grafiken und Diagramme veranschaulichen die Inhalte Die Zielgruppen Das Buch wendet sich an Studierende des Maschinenbaus und dient Ingenieuren Technikern und Wissenschaftlern auf dem Gebiet der Umformtechnik als übersichtliches Nachschlagewerk

Design and Manufacture for Sustainable Development Bernard

Hon,2002-04-22 Design and Manufacture for Sustainable Development brings together a collection of papers from a conference held at the University of Liverpool in June 2002 that inspire the interchange of ideas on the theory technology tools and methodology for the entire product life cycle within the framework of sustainable development It also embraces key subjects including strategy design materials manufacturing packaging distribution disposal recycling and auditing TOPICS COVERED INCLUDE Philosophy of and strategy for sustainable technologies Design principles for sustainable development Sustainable manufacturing technologies Use of recycling bio degradable materials Re use and recycling design and technologies Tools for sustainable product design Measurement and auditing Best practices and case studies Impact of emerging legislation International trends and future development Sustainable development will have a fundamental impact on the engineering community since through design and manufacture we are responsible for the use of energy materials and processes for the complete product life cycle This is an essential volume for the bookshelves of those wanting to be well informed about this evolving technology

Fertigungstechnik - Umformen Michael Reichel,2017-06-05 Michael Reichel beleuchtet systematisch das Fertigungsverfahren Napfr ckw rtsflie pressen das nach DIN 8583 zu den Druckumformverfahren geh rt Die Grundlagen werden er rtert und der heutige Stand der Technik vorgestellt Der Werkstoff flie t bei dem Verfahren entgegen der Arbeitsbewegung des Werkzeugs Es werden dazu die verschiedenen Vorbehandlungen Arbeitsg nge Bestandteile des Werkzeugs und Maschinen speziell Spindelpressen behandelt Selbst durchgef hrte und gut dokumentierte Versuche bilden den Praxisteil dieses essentials Diese experimentell ermittelten Ergebnisse werden den rechnerischen gegen bergestellt Dubbel Karl-Heinrich Grote,Jörg Feldhusen,2006-12-09 Der DUBBEL ist seit Generationen das Standardwerk der Ingenieure mit dem Anwendungsschwerpunkt Maschinen und Anlagentechnik Er wird laufend neubearbeitet und somit stets auf aktuellem Stand der Technik gehalten Nicht nur als Lehrmittel sondern auch als Nachschlagewerk stellt das Buch das Basis und Detailwissen der folgenden Gebiete bereit Mathematik Mechanik Festigkeitslehre Thermodynamik Werkstofftechnik Konstruktionstechnik Mechanische Konstruktionselemente Fluidische Antriebe Mechatronische Systeme Komponenten des thermischen Apparatebaus Energietechnik Klimatechnik Verfahrenstechnik Maschinendynamik Kolbenmaschinen Fahr u Flugzeugtechnik Str mungsmaschinen Fertigungsverfahren und mittel F rdertechnik Elektrotechnik Mess und Regelungstechnik Elektronische Datenverarbeitung Allgemeine Tabellen

Manufacturing Processes 4 Fritz Klocke,2014-07-08 This book provides essential information on metal forming utilizing a practical distinction between bulk and sheet metal forming In the field of bulk forming it examines processes of cold warm and hot bulk forming as well as rolling and a new addition the process of thixoforming As for the field of sheet metal working on the one hand it deals with sheet metal forming processes deep drawing flange forming stretch drawing metal spinning and bending In terms of special processes the chapters on internal high pressure forming and high rate forming have been revised and refined On the other the book elucidates and presents the state of the art in sheet metal

separation processes shearing and fineblanking Furthermore joining by forming has been added to the new edition as a new chapter describing mechanical methods for joining sheet metals The new chapter Basic Principles addresses both sheet metal and bulk forming in addition to metal physics plastomechanics and computational basics these points are complemented by the newly added topics of metallography and analysis materials and processes for testing and tribology and lubrication techniques The chapters are supplemented by an in depth description of modern numeric methods such as the finite element method All chapters have been updated and revised for the new edition and many practical examples from modern manufacturing processes have been added Comprehensive Materials Processing ,2014-04-07 Comprehensive Materials Processing Thirteen Volume Set provides students and professionals with a one stop resource consolidating and enhancing the literature of the materials processing and manufacturing universe It provides authoritative analysis of all processes technologies and techniques for converting industrial materials from a raw state into finished parts or products Assisting scientists and engineers in the selection design and use of materials whether in the lab or in industry it matches the adaptive complexity of emergent materials and processing technologies Extensive traditional article level academic discussion of core theories and applications is supplemented by applied case studies and advanced multimedia features Coverage encompasses the general categories of solidification powder deposition and deformation processing and includes discussion on plant and tool design analysis and characterization of processing techniques high temperatures studies and the influence of process scale on component characteristics and behavior Authored and reviewed by world class academic and industrial specialists in each subject field Practical tools such as integrated case studies user defined process schemata and multimedia modeling and functionality Maximizes research efficiency by collating the most important and established information in one place with integrated applets linking to relevant outside sources **Fertigungstechnik** A. Herbert Fritz,Günter Schulze,2013-03-09 Die Wahl des Fertigungsverfahrens beeinflusst die Kosten der Produktion maßgeblich eine richtige Entscheidung kann vielfach Millionen einsparen In der vorliegenden Ausgabe wurden Bezeichnungen und Fachbegriffe aktualisiert und neuere Produktionsverfahren integriert Darstellungen und Erläuterungen sind ausreichend genau wissenschaftlich detailliert und dabei stets gut verständlich Die Übersichtlichkeit und klare Gliederung des Buchs werden sehr gelobt Sowohl für die Produktion als Nachschlagewerk als auch für Studierende als umfassendes Basiswissen vermittelnde Literatur ist das Buch zu empfehlen Mit ausführlichen Tabellen und Grafiken wird das Verständnis gefördert und auch die Anwendbarkeit in der täglichen Praxis hilfreich unterstützt Da praktisch nutzbares Wissen von Erfahrungswerten lebt ist dieses Buch eine willkommene Abwechslung in der Welt der oft für Theoretiker verfassten Literatur Handbuch Umformtechnik ,1977 **Technologie der Werkstoffe** Jürgen Ruge,Helmut Wohlfahrt,2007-08-23 In diesem Lehrbuch werden Grundkenntnisse zur Technologie der Werkstoffe praxisbezogen vermittelt Einführende Kapitel zeigen Aufbau und Eigenschaften der Werkstoffe sowie Möglichkeiten der Prüfung und Veränderung der Eigenschaften Auf der Basis notwendiger

Grundlagenkenntnisse wird das Verständnis für die jeweils speziellen Bedingungen und Abläufe wichtiger technologischer Prozesse und die nachhaltigen Auswirkungen der Herstellungsverfahren auf die Eigenschaften der Werkstoffe und Halbzeuge gefördert und erleichtert. In der vollständig normenaktualisierten Auflage wurde das Kapitel zu den keramischen Werkstoffen deutlich erweitert, das Kugelstrahlumformen und Sprühkompaktieren sowie das Kleben von Metallen und Kunststoffen wurden neu aufgenommen.

Handbuch Umformtechnik Bernd-Arno Behrens Eckart Doege, 2010 [Metal Forming Handbook](#) Schuler GmbH, 2012-12-06 Following the long tradition of the Schuler Company the Metal Forming 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 radically 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 provide 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 technical explanations particular emphasis was placed on easily understandable 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.

Mathematical Simulation in Glass Technology Dieter Krause, Horst Loch, 2012-12-06 This book entitled *Mathematical Simulation in Glass Technology* is one of a series reporting on research and development activities on products and processes conducted by the Schott Group. The scientifically founded development of new products and technical processes has traditionally been of vital importance to Schott and has always been performed on a scale determined by the prospects for application of our special glasses. Since the reconstruction of the Schott Glaswerke in Mainz the scale has increased enormously. The range of expert knowledge required could never have been supplied by Schott alone. It is also a tradition in our company to cultivate collaboration with customers, universities and research institutes. Publications in numerous technical journals which since 1969 we have edited to a regular schedule as *Forschungsberichte* research reports describe the results of these cooperations. They contain up to date information on various topics for the expert but are not suited as survey material for those whose standpoint is more remote. This is the point where we would like to place our series to stimulate the exchange of thoughts so that we can consider from different points of view the possibilities offered by those incredibly versatile materials glass and glass ceramics. We would like to share the knowledge won through our research and

development at Schott in cooperation with the users of our materials with scientists and engineers interested customers and friends and with the employees of our firm **DUBBEL - Taschenbuch für den Maschinenbau** Wolfgang Beitz, Karl-Heinz Küttner, 2013-04-17 Der Springer Verlag würdigt die Bedeutung des bereits in der 18. Auflage erschienenen Standardwerkes des Maschinenbaus durch eine limitierte, numerierte Leder-Sonderausgabe. Für viele Ingenieure ist der DUBBEL seit Generationen Wegbegleiter durch die Höhen und Tiefen von Studium und Beruf. Sie werden sich an der bibliophilen und repräsentativen Sonderausgabe erfreuen, die sich auch als ideales Geschenk zu besonderen Anlässen eignet.

Fertigungsverfahren 4 Wilfried König, 2006-11-23 Der 4. Band Umformtechnik fasst die Bereiche Massivumformung und Blechbearbeitung in ein neues Kapitel und moderne Methoden in aktueller Darstellung sämtlicher Verfahrensvarianten mit Gestaltungsregeln und Produktionsbeispielen. Aktualisiert, erweitert um neue Inhalte und eine Metallographie-Analyse, Werkstoffe, Finite Elemente, Methode Thixoformen, neue aufbereitete Sonderverfahren, Innenhochdruck und Hochgeschwindigkeitsumformung. **Computerunterstützte Produktion** Peter Hehenberger, 2020-04-09 Das vorliegende Buch vermittelt Grundlagen der computerunterstützten Produktion in der Produktentstehung und bietet einem breiten Leserkreis in kompakter und übersichtlicher Form einen Einstieg zu den Themen Fertigungstechnik, Werkzeugmaschinen, CNC-Techniken, CAD/CAM, Prozessketten und Softwarewerkzeuge, Gestaltung und Management von Produktionsprozessen in Hinblick auf Digitalisierung, Qualitätsmanagement in der Produktion, Reverse Engineering und Rapid Prototyping. Angesprochen werden insbesondere Studierende von Universitäten und Fachhochschulen der Fachrichtungen Automatisierungstechnik, Mechatronik, Elektrotechnik, Maschinenbau, Wirtschaftsingenieurwesen sowie Ingenieure, die schnell einen Überblick zu der Problematik gewinnen wollen. **Übungsbuch Fertigungstechnik** Ulrich Wojahn, Alfred Breitenkopf, 2013-03-08 Dieses Übungsbuch enthält vollständig durchgerechnete Beispiele zu den wichtigsten Gebieten der Fertigungstechnik. Grundwissen über die gängigen Fertigungstechniken wird vorausgesetzt. Das Buch eignet sich zum Einsatz an Fachoberschulen, beruflichen Gymnasien, Fachschulen und Fachhochschulen. **Tragfähigkeitsberechnungen für Kehlnähte auf Grundlage experimentell gestützter Werkstoffmodellierung** Wolfgang Römer, 2015-01-01

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