

Eckart Doege - Bernd-Arno Behrens

Handbuch Umformtechnik

Grundlagen, Technologien, Maschinen

2. Auflage



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Handbuch Der Umformtechnik

Rosina Ehmann



Handbuch Der Umformtechnik:

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 auch 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 **Handbuch der Umformtechnik** Schuler GmbH, 2013-07-02

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Handbuch Umformtechnik Eckart Doege, Bernd-Arno Behrens, 2010-04-07 Das Handbuch Umformtechnik erscheint jetzt in der zweiten Auflage Es ist das neue Standardwerk für Ingenieure ambitionierte Studenten und Wissenschaftler Es beruht auf

durch die kompakte und bersichtliche Darstellung grundlegenden Wissens und komplexer Inhalte f r die wissenschaftliche Arbeit und die industrielle Praxis In den Kapiteln Grundlagen der Umformtechnik Blechumformung Massivumformung und Umformmaschinen werden ausgehend von den metallografischen plastomechanischen und tribologischen Grundlagen aktuelle Technologien und Verfahren vorgestellt Zahlreiche Grafiken illustrieren die Inhalte Aktuelle Forschungsergebnisse sowie Erfahrungen aus ber 50 Jahren universit rer Forschung und Lehre machen das Buch zu einem hilfreichen Handwerkszeug f r den Umformtechniker

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

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

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 Strömungsmaschinen Fertigungsverfahren und mittel F rdertechnik Elektrotechnik Mess und Regelungstechnik Elektronische Datenverarbeitung Allgemeine Tabellen **Fertigungstechnik** A.Herbert Fritz,G. Schulze,2013-03-09 Aus den Rezensionen Das vorliegende Buch ist eine kurz gefa te Abhandlung ber das sehr breite Gebiet der Fertigungstechnik Es besticht durch seine klare Gliederung Die Grundlagen sind bewu t knapp aber leicht verst ndlich abgehandelt Alle Verfahren werden sehr anschaulich und mit Unterst tzung von vielen Bildern und Diagrammen beschrieben Damit steht nicht nur dem Studierenden sondern auch dem Praktiker ein gutes Nachschlagewerk zur Fertigungstechnik zur Verf gung MM Maschinenmarkt

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 Metal Forming Handbook Schuler GmbH,2012-12-06 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 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. Handbook of Metallurgical Process Design George E.

Totten, Kiyoshi Funatani, Lin Xie, 2004-05-25 Reviewing an extensive array of procedures in hot and cold forming, casting, heat treatment, machining and surface engineering of steel and aluminum, this comprehensive reference explores a vast range of processes relating to metallurgical component design, enhancing the production and the properties of engineered components while reducing manufacturing costs. It surveys the role of computer simulation in alloy design and its impact on material structure and mechanical properties such as fatigue and wear. It also discusses alloy design for various materials including steel, iron, aluminum, magnesium, titanium, super alloy, compositions and copper. **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.

Tribologie und Schmierung bei der Massivumformung Wilfried J. Bartz, 2004 **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, Neu aufbereitete Sonderverfahren, Innenhochdruck und Hochgeschwindigkeitsumformung.

Maschinenbau Werner Skolaut, 2018-08-13 Alles aus einer Hand! Dieses vierfarbige Lehrbuch bietet in einem Band ein lebendiges Bild des gesamten Maschinenbaus. Studierende finden das im Bachelor-Studium behandelte Wissen ausführlich und anhand vieler Beispiele erklärt. Im Mittelpunkt steht das Verständnis der Zusammenhänge zwischen den Fachgebieten. Herausragende Merkmale sind: Alle Grundlagenfächer in einem Band, Vierfarbiges Layout mit mehr als 1500 Abbildungen. Ein Leitbeispiel führt durch das gesamte Buch, Boxen verdeutlichen Zusammenhänge und Methoden, Verständnisfragen.

ermöglichen die Lernkontrolle beim Lesen Farbige Merkmale heben das Wichtigste hervor Jedes Kapitel enthält Rechenaufgaben und Kurze Anwendungen und Beispielboxen erklären schwierige Themen Vertiefungsboxen erläutern Hintergründe Bonusmaterial auf der Homepage Inhaltlich spannt sich der Bogen von der Technischen Mechanik über die Thermodynamik und Strömungslehre die Werkstoffkunde die Maschinenelemente und die Fertigungstechnik bis hin zur Elektrotechnik und Regelungstechnik In der zweiten Auflage wurden zukunftsweisende Themen wie geometrische Produktspezifikationen additive Fertigungstechniken Industrie 4.0 und Energiespeicher erweitert und weitere Aufgaben aufgenommen Auf der Homepage zum Buch sind die Lösungen zu den Rechenaufgaben und das Bonusmaterial zu finden Das Lehrbuch Maschinenbau begeistert durch seine vielen Abbildungen aktuellen Beispiele und lebendigen Formulierungen Der rote Faden in Form des Antriebsstranges eines modernen Automobils sowie die aufeinander abgestimmten Vertiefungsboxen und Vertiefungsboxen machen das Buch zu einer angenehmen Lektüre Hier wird deutlich dass beim Leser Interesse geweckt und er spielerisch an die Lehrthemen herangebracht wird Prof. Dr.-Ing. P. U. Thamsen TU Berlin

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

Fertigungsverfahren 4 Fritz Klocke, 2018-01-12 Der bearbeitete vierte Band Umformen ist Teil des fünfundzwanzigsten Werks und befasst sich mit den Fertigungsverfahren der Massiv- und der Blechumformung sowie der Blechtrennung Die in diesem Band vorgestellten Fertigungsverfahren umfassen Prozesse der Kalt-, Halbwarm- und Warmumformung Nach Vermittlung der Grundlagen der Umformtechnik werden in den einzelnen Kapiteln die Fertigungsverfahren im Detail anwendungsbezogen dargestellt Dem Leser wird der aktuelle Stand der Technik sowie ausgewählte Umformprozesse anwendungsspezifisch vorgestellt Die neue Auflage wird durch die Beschreibung von aktuellen Trends in der Umformtechnik

erg nzt Die Trends umfassen dabei den stofflichen Leichtbau Verarbeitung von hochfesten Werkstoffen inkrementelle Umformung Oberfl chenbehandlung Verarbeitung von kohlenstofffaserverst rkten Werkstoffen und weitere Themen Die in diesem Band neugestalteten Abbildungen vermitteln dem Leser leicht verst ndlich einen berblick ber die komplexen Fertigungsverfahren sowie technischen Grundlagen Zu den jeweiligen Umformverfahren werden neue praxisbezogene Erkenntnisse ber cksichtigt Sonderverfahren wie das Verbundschmieden zur Herstellung von Hybridbauteilen sowie der neu entwickelte Prozess des hybriden Vollvorw rtsflie pressens wurden erg nzt Dieses Buch kann als Referenzwerk und ebenso zur spezialisierten Vertiefung von vorhandenem Wissen dienen **Handbuch Umformtechnik** ,1977 Einführung in die Fertigungstechnik Hans-Jürgen Warnecke,2013-03-09

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