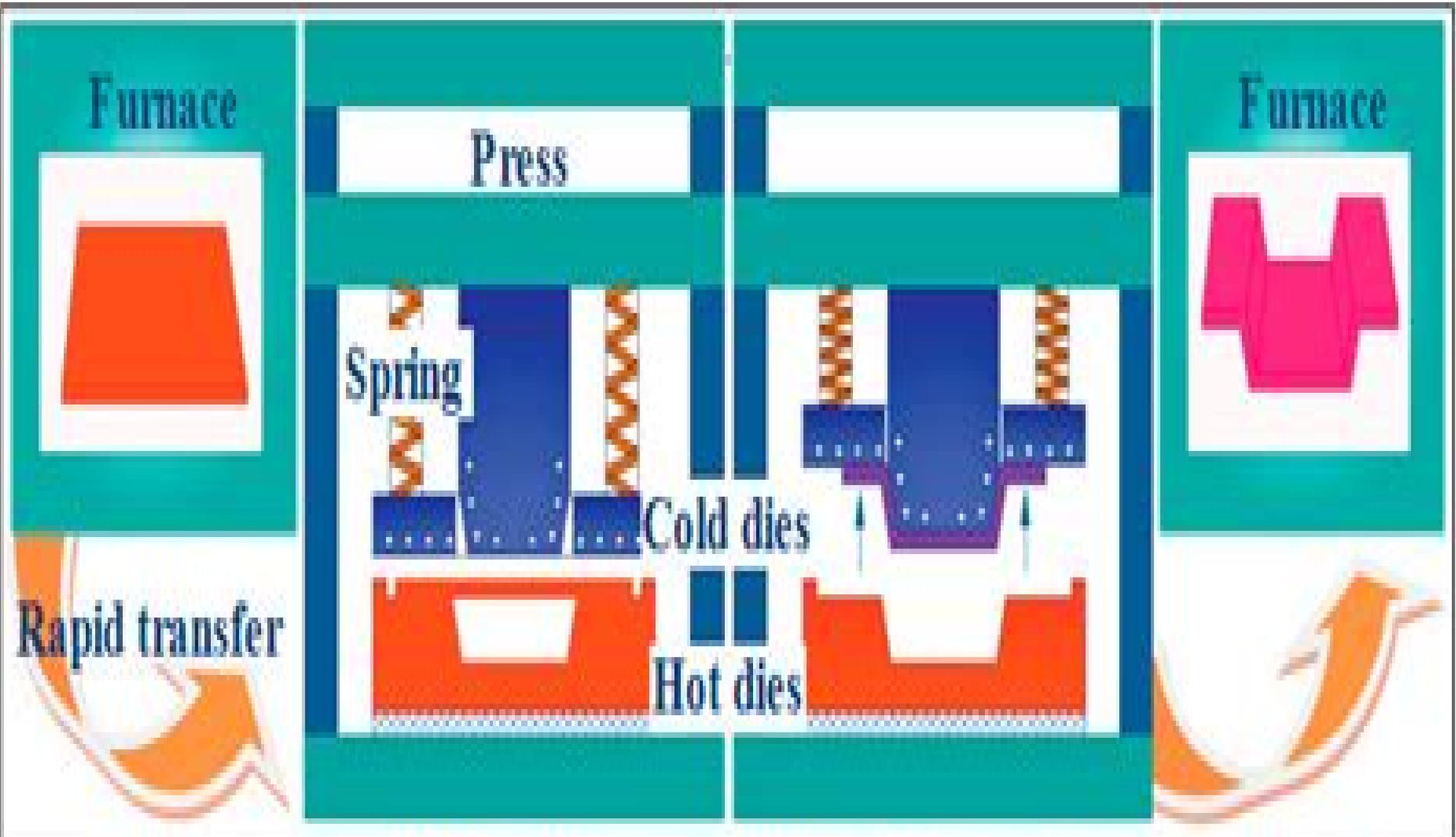


(c)



Solution

Hot forming

Holding within cold-dies

Aging

Chapter 2 Hot Stamping Technology And The Main Equipment

RJ Alexander



Chapter 2 Hot Stamping Technology And The Main Equipment:

Hot Stamping Advanced Manufacturing Technology of Lightweight Car Body Ping Hu,Liang Ying,Bin He,2016-10-14 This book summarizes the advanced manufacturing technology of original innovations in hot stamping of lightweight car body A detailed description of the technical system and basic knowledge of sheet metal forming is given which helps readers quickly understand the relevant knowledge in the field Emphasis has been placed on the independently developed hot stamping process and equipment which help describe the theoretical and experimental research on key problems involving stress field thermal field and phase transformation field in hot stamping process Also a description of the formability at elevated temperature and the numerical simulation algorithms for high strength steel hot stamping is given in combination with the experiments Finally the book presents some application cases of hot stamping technology such as the lightweight car body design using hot stamping components and gradient hardness components and the cooling design of the stamping tool This book is intended for researchers engineers and graduate students in vehicle engineering mechanical engineering especially in the field of advanced manufacturing technology The book also provides a useful reference for other new technology related temperature and phase transformation such as aluminum magnesium alloy hot stamping Theories, Methods and Numerical Technology of Sheet Metal Cold and Hot Forming Ping Hu,Ning Ma,Li-zhong Liu,Yi-guo Zhu,2012-07-23 Over the last 15 years the application of innovative steel concepts in the automotive industry has increased steadily Numerical simulation technology of hot forming of high strength steel allows engineers to modify the formability of hot forming steel metals and to optimize die design schemes Theories Methods and Numerical Technology of Sheet Metal Cold and Hot Forming focuses on hot and cold forming theories numerical methods relative simulation and experiment techniques for high strength steel forming and die design in the automobile industry Theories Methods and Numerical Technology of Sheet Metal Cold and Hot Forming introduces the general theories of cold forming then expands upon advanced hot forming theories and simulation methods including the forming process constitutive equations hot boundary constraint treatment and hot forming equipment and experiments Various calculation methods of cold and hot forming based on the authors experience in commercial CAE software for sheet metal forming are provided as well as a discussion of key issues such as hot formability with quenching process die design and cooling channel design in die and formability experiments Theories Methods and Numerical Technology of Sheet Metal Cold and Hot Forming will enable readers to develop an advanced knowledge of hot forming as well as to apply hot forming theories calculation methods and key techniques to direct their die design It is therefore a useful reference for students and researchers as well as automotive engineers *Plastics Technology Handbook, Third Edition*, Manas Chanda,Salil K. Roy,1998-04-10 Completely updated and enlarged to reflect the advances that have taken place since the publication of the Second Edition Third Edition offers concise examinations of the chemical nature characteristic properties and uses of traditional industrial polymers such as acrylics polyolefins vinyl polymers polyesters

epoxies and silicones among others

Materials Processing Technologies Zheng Yi Jiang, Xianghua Liu, Jinglong Bu, 2010-10-27 Selected peer reviewed papers from the 2010 International Conference on Advances in Materials and Manufacturing Processes ICAMMP 2010 6 8 November 2010 Shenzhen China

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

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