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Nota di contenuto	Innovative Research in Hot Stamping Technology; Preface, Organization and Committee; Table of Contents; Chapter 1: Material Technologies and Testing; Simulation Study on the Austenisation and Cooling Behaviors of the Medium-Mn Steel; Development of Niobium Alloyed Press Hardening Steel with Improved Properties for Crash Performance; The Development and Application Research of Light Weight Heat Treated C-Grade Bullet Proof Steel; The Effect of Heating Process on Strength and the Original Austenite Grain Size of Hot Forming Parts; Solutions for Hydrogen-Induced Delayed Fracture in Hot Stamping Martensitic Stainless Steel as Alternative for Hot Stamping Steel with High Product of Strength and DuctilityMicrostructure Development and Mechanical Properties of a Hot Stamped Low-Carbon Advanced High Strength Steel Treated by a Novel Dynamic Carbon Partitioning Process; Microstructure Evolution Behavior of 22MnB5 Pickling Plate during Double Cold Reduction and Rapid Heating Process; Microstructure and Mechanical Properties of 22MnB5 Steel with Different Heat Treatment; A Study on High Speed Tension Property of C-Grade Bullet Proof Steel Plate

Microstructure and Mechanical Properties of 22MnB5 Hot Stamping PartMicrostructure and Mechanical Properties of 0.15C-1.5Mn-0.3Si Steel Treated by Quenching and Partitioning Process; Research on Elements Distribution in Hot Dip Aluminum Silicon Coating of Hot Stamping Steel; A Study on the Relationship between Hardness and Magnetic Properties of Ultra-High Strength Steel; Hot Formed Steel and its Properties Test; Effects of Austenitizing Temperature on Microstructure and Properties of Hot-Formed Steel
The Comparative Study on Dynamic Flow Behaviors of Bullet-Proof Steel Using Various Constitutive ModelsEffects of Initial Material Conditions on the High Temperature Surface Oxidation of Press-Hardening Steels; Thermal and Mechanical Characteristics of a HSLA Steel as Joint Partner for Hot Stamping Tailor Welded Boron Steel; Effect of Pre-Heating Temperature on Microstructure and Properties of 22MnB5 Steel Hot Stamping; Research on Resistance Spot Welding Process of Hot-Stamped Steel BTR165; Research on Resistance Spot Welding Property of Hot-Stamping Quenched Steel Sheets
Hot Deformation of Al - 4.5 Mass % Mg Alloy SheetMartensitic Automotive Steel Sheet - Fundamentals and Metallurgical Optimization Strategies; Investigation on Properties and Microstructure in Hot Stamping Operation of Rear Axle Beams; Chapter 2: Forming and Stamping Technologies and Investigations; Research and Progress of Hot Stamping in China; Research Status of Advanced Hot Forming Technology; Robustness of the Tailored Hot Stamping Process; Hot Stamping High Strength Steel Spot Welding Technology and Quality Evaluation of Welding Joint
Investigation of Mechanical Property and Springback Behavior with Hot Stamping RCP Process

Sommario/riassunto

Collection of selected, peer reviewed papers from the 1st International Conference on Hot Stamping of UHSS (ICHSU 2014), August 21-24, 2014, Chongqing, China. The 66 papers are grouped as follows: Chapter 1: Material Technologies and Testing; Chapter 2: Forming and Stamping Technologies and Investigations; Chapter 3: Modeling, Simulation and Calculation Methods; Chapter 4: Equipments and Its Application