



# Hot Stamping Advanced Manufacturing Technology of Lightweight Car Body

*Ping Hu, Liang Ying, Bin He*

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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.

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As we know that book is significant thing to add our expertise for everything. By a reserve we can know everything you want. A book is a range of written, printed, illustrated or blank sheet. Every year seemed to be exactly added. This guide Hot Stamping Advanced Manufacturing Technology of Lightweight Car Body was filled about science. Spend your time to add your knowledge about your technology competence. Some people has various feel when they reading some sort of book. If you know how big selling point of a book, you can experience enjoy to read a reserve. In the modern era like now, many ways to get book you wanted.

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