



Formability of Metallic Materials: Plastic Anisotropy, Formability Testing, Forming Limits (Engineering Materials)

H.J. Bunge, K. Pöhlandt, A.E. Tekkaya, D. Banabic

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After a brief introduction into crystal plasticity, the fundamentals of crystallographic textures and plastic anisotropy, a main topic of this book, are outlined. A large chapter is devoted to formability testing both for bulk metal and sheet metal forming. For the first time testing methods for plastic anisotropy of round bars and tubes are included. A profound survey is given of literature about yield criteria for anisotropic materials up to most recent developments and the calculation of forming limits of anisotropic sheet metal. Other chapters are concerned with properties of workpieces after metal forming as well as the fundamentals of the theory of plasticity and finite element simulation of metal forming processes. The book is completed by a collection of tables of international standards for formability testing and of flow curves of metals which are most commonly used in metal forming. It is addressed both to university and industrial readers.



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