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# Theory and Technology of Roll Stamping

 Springer

This book gives a complete overview of the roll stamping process of metal forming. This fundamentally new technique features an integrated local loading of the plastic deformation zone of the workpiece, simultaneously combining the die forging operation and local deformation of the deformation zone by rotating rollers or drive rolls. The book presents the basics of the theory behind roll stamping, delivering a complete technical analysis including the key results of mathematical modeling studies and a discussion of methodologies for designing novel roll stamping techniques. The aim of the new metal forming processes proposed in the book is directed toward the production of competitive equipment for fabrication of various mechanical parts having enhanced materials and physical properties in combination with a low cost of production and maintenance. This book is an ideal resource for any student or practicing engineer working with the roll stamping process.

Изложены результаты теоретических и экспериментальных исследований нового технологического процесса - валковой штамповки. Приведена разработанная методика расчета параметров для получения изделий с заданными механическими свойствами, а также основы моделирования и проектирования технологических процессов валковой штамповки.