



# Rod and Bar Rolling: Theory and Applications (Manufacturing Engineering and Materials Processing)

*By Youngseog Lee*

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## **Rod and Bar Rolling: Theory and Applications (Manufacturing Engineering and Materials Processing) By Youngseog Lee**

Rod and Bar Rolling: Theory and Applications highlights the underlying relationship between solid mechanics and materials science. It provides a detailed overview of the deformation of material at high temperatures, an assessment of rod and bar rolling processes, and an in-depth review of the basics of hot rolling, elasticity, plasticity, and recrystallization for a clear understanding of the solid mechanics in engineering applications. The also reference presents methods utilized at modern rod and bar rolling facilities and current topics such as interstand tension, roll wear at elevated temperatures, water cooling of a workpiece during rolling.

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### **Editorial Review**

#### **Review**

"Lee (Chung Ang Univ., Seoul, Korea) is the first to discuss almost exclusively the hot-rolling of rod (circular cross-section) and bar (polygonal across section). The author has a practical background in the subject matter acquired in the steel industry of Korea, and has also published extensively on the topic. He brings this experience to bear in this comprehensive treatment. The book is well referenced and illustrated, and is recommended for acquisition by libraries and specialists with interests in the field of metal processing. Summing Up: Highly recommended. Graduate students through professionals." -CHOICE, January 2005

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