



# High-Intensity Ultrasonics: Theory and Industrial Applications

*O V Abramov*

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## **High-Intensity Ultrasonics: Theory and Industrial Applications** O V Abramov

Presenting a comprehensive description of the theory and physics of high-intensity ultrasound, this book also deals with a wide range of problems associated with the industrial applications of ultrasound, mainly in the areas of metallurgy and mineral processing.

The book is divided into three sections, and Part I introduces the reader to the theory and physics of high-intensity ultrasound. Part II considers the design of ultrasonic generators, mechanoacoustic radiators and other vibrational systems, as well as the control of acoustic parameters when vibrations are passed into a processed medium. Finally, Part III describes problems associated with various uses of high-intensity ultrasound in metallurgy. The applications of high-intensity ultrasound for metal shaping, thermal and thermochemical treatment, welding, cutting, refining, and surface hardening are also discussed here. This comprehensive monograph will provide an invaluable source of information, which has been largely unavailable in the West until now.

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