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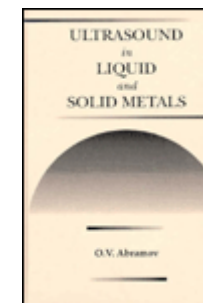
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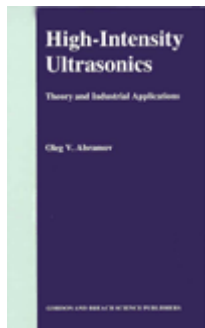
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"...an invaluable source of information, largely unavailable in the West until now...comprehensive coverage of theory and physics...also discusses a wide range of problems associated with the industrial applications of ultrasound."

From the Publisher

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 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

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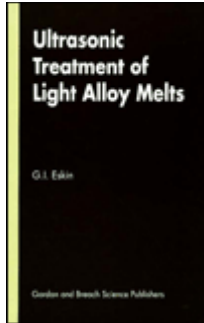
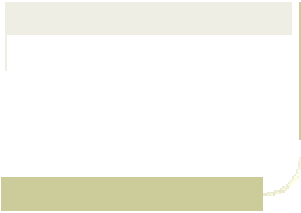
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This is the first monograph to comprehensively cover the effect of using power ultrasound to refine and solidify

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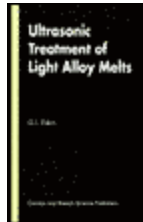
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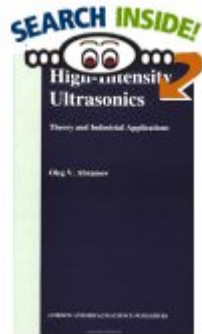
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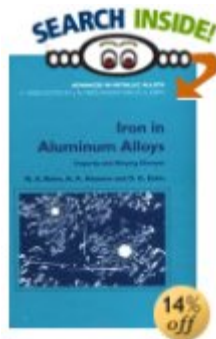
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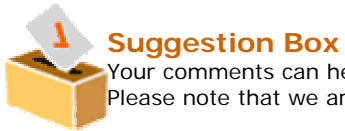
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Editorial Reviews

From Book News, Inc.

Brodova (Institute of Metal Physics, Russia), Popel (Ural State Pedagogical Institute, Russia), and Eskin (All-Russia Institute of Light Alloys) present a generalized monograph on the complex role of the structural state of aluminum, from initial melt to semi-finished products, in the structure and service properties of ingots and castings. A few of the ways of governing the structure and properties of cast aluminum by applying different external actions to the internal melt are studied. Chapters cover structural rearrangements in metallic melts, the effect of heat-time treatment (HTT) of melts on the structure and properties of aluminum alloys, modification as a means of controlling the structure of liquid and solid alloys, and ultrasonic treatment of aluminum melts as an alternative to HTT for improving the quality of castings and deformed semi-finished products. *Book News, Inc.*, Portland, OR --This text refers to the [Hardcover](#) edition.

About the Author

Dr. I.G. Brodova is a Senior Scientist at the Crystallisation Laboratory of the Institute of Metal Physics, Ekaterinburg, Russia. Professor P.S. Popel is based at the Ural State Pedagogical Institute, Ekaterinburg, Russia. G.I. Eskin is the Head of Research and Development at the All-Russia Institute of Light Alloys in Moscow --This text refers to the [Hardcover](#) edition.

Book Description

The title presents an up-to-date account of the research, development, and applications of metallic alloys, recent research into the structure of charge materials, melt treatment, and casting technologies, and their influence on the properties of melts and ingots. This research has confirmed theoretical concepts about the microheterogeneous constitution of metallic melts and has made it possible to manage the quality of castings and ingots of various alloys by their special treatment in the liquid state. The four chapters of the book give theoretical and experimental evidence of the effect of the melt constitution on the structure and properties of the solid metal, and common features of structure formation in aluminium alloys are considered for a wide range of solidification conditions, including ultrasonic and thermal melt treatments. The technological problems of these treatments are also discussed.

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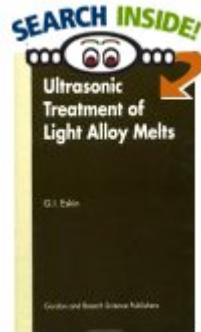
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results obtained over the 40 years he has spent developing these techniques.

Ultrasonic treatment efficiently removes hydrogen and fine solid inclusions from melts, and also helps create a refined grain structure during solidification in the ultrasonic field. Both the fundamental and applied aspects of the formation of an extremely fine nondendritic grain structure are discussed, as well as the application of ultrasound to the process of zone melting.

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