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Characterization is an indispensable guide
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This book is a comprehensive and practical guide to the use of ultrasonic techniques for the characterization of fluids. Focusing on ultrasonic velocimetry, the author covers the basic topics and techniques necessary for successful

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ultrasound measurements on emulsions, dispersions, multiphase media, and viscoelastic/viscoplastic materials. Advanced techniques such as scattering, particle sizing, and automation are also presented. As a handbook for industrial and scientific use, Ultrasonic Techniques for Fluids Characterization is an indispensable guide to chemists and chemical engineers using ultrasound for research or process monitoring in the chemical, food processing, pharmaceutical, cosmetic, biotechnology, and fuels industries. Appeals to anyone using ultrasound to study fluids Provides the first detailed description of the ultrasound profiling technique for dispersions Describes new techniques for measuring phase transitions and nucleation, such as water/ice and oil/fat Presents the latest ultrasound techniques for particle sizing in

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This book is a comprehensive and practical guide to the use of ultrasonic techniques for the characterization of fluids. Focusing on ultrasonic velocimetry, the author covers the basic topics and techniques necessary for successful ultrasound measurements on emulsions, dispersions, multiphase media, and viscoelastic/viscoplastic materials. Advanced techniques such as scattering, particle sizing, and automation are also presented. As a handbook for industrial and scientific use, *Ultrasonic Techniques*

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Characterization
references to the primary literature

Two key words define the scope of this book: 'ultrasound' and 'colloids'.

Historically, there has been little real communication between practitioners in these two fields. Although there is a large body of literature devoted to ultrasound phenomenon in colloids, there is little recognition that such phenomena may be of real importance for both the development and applications of colloid science. On the other side, colloid scientists have not embraced acoustics as an important tool for characterizing colloids. The lack of any serious dialogue between these scientific fields is the biggest motivation behind this book. -

Covers in detail this multidisciplinary field combining acoustics, electroacoustics, colloid science, analytical chemistry and rheology - Provides a bibliography with

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more than 1,000 references - Presents theories and their experimental verification, as well as analysis of the methods and hardware pertaining to applications such as pharmaceuticals, ceramics, and polymers

Describes recent techniques applied to characterize surfactant systems, such as surfactant-stabilized colloids, micelles, microemulsions, emulsions and foams in both aqueous and nonaqueous fluids. The text probes adsorption and wetting phenomena at interfaces, including solid-liquid, liquid-vapour and liquid-liquid. It provides helpful examples and case studies illustrating how these techniques may be used in complementary ways.

Different physical models for the Snoek-type relaxation in ternary systems (Fe-C-Me) are analyzed from the viewpoint of a

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Characterization distance of interatomic interaction taken into account: For non-saturated from the viewpoint of overlapping of interatomic interaction in b.c.c. alloys the physically sufficient and optimal for the computer simulation is the short-range model, which takes into account the interatomic interaction and the average amount of substitutional atoms in the first coordination shell, only. For high alloyed b.c.c. systems (i.e. with the overlapped interatomic interaction) the carbon atom undergoes an interaction of a few substitutional atoms simultaneously. That leads to the appearance of one broadened Snoek peak. Activation energy of such a peak is summed from the "elastic" and "chemical" interatomic interactions. Experimental results for alloys with b.c.c. solid solution structure and its computer simulations allow to introduce the new criterion for the high alloy state of

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Characterization: In high alloyed state monophase steels: the situation when substitutional atoms can not be considered any longer as the isolated atoms. From the viewpoint of mechanical spectroscopy this situation corresponds to the appearance of one broadened IF Snoek-type peak instead of two peaks existed for the steels with lower substitutional atom concentration.

While research on ultrasonics has been covered in earlier volumes of the Physical Acoustics series, Volumes 23 and 24 demonstrate the successful commercialization of devices and instruments arising from research in this area. These volumes will assist in the process of bringing research output into the marketplace to the benefit of customers. The chapters are liberally illustrated with pictures of actual commercial objects which have been or

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are in use. Included are Medical Ultrasonic Diagnostics, Nondestructive Testing (NDT), Acoustic Emission, Process Control, Surface Acoustic Wave (SAW) Devices, Frequency Control Devices, Research Instruments, Transducers, and Ultrasonic Microscopes. Also contained in the text are six essays covering technology transfer and commercialization.

The ultrasonic velocity profile (UVP) method, first developed in medical engineering, is now widely used in clinical settings. The fluid mechanical basis of UVP was established in investigations by the author and his colleagues with work demonstrating that UVP is a powerful new tool in experimental fluid mechanics. There are diverse examples, ranging from problems in fundamental fluid dynamics to applied problems in mechanical, chemical, nuclear, and environmental engineering. In

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all these problems, the methodological principle in fluid mechanics was converted from point measurements to spatio-temporal measurements along a line. This book is the first monograph on UVP that offers comprehensive information about the method, its principles, its practice, and applied examples, and which serves both current and new users. Current users can confirm that their application configurations are correct, which will help them to improve the configurations so as to make them more efficient and effective. New users will become familiar with the method, to design applications on a physically correct basis for performing measurements accurately. Additionally, the appendix provides necessary practical information, such as acoustic properties.

This book summarizes the fundamental and established methods for the synthesis

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Characterization of nanoparticles, providing readers with an organized and comprehensive insight into the field of nanoparticle technology. In addition to exploring the characterization and applications of nanoparticles, it also focuses on the recently explored corona discharge micromachining - Electrical Discharge Micromachining (EDMM) - method to synthesize inorganic nanoparticles. In the synthesis of nanoparticles, organic materials often play an indispensable role, such as providing stabilizers in the form of capping agents. This book will be of interest to advanced undergraduate and graduate students studying physics and engineering, as well as professionals and academics looking for an introduction to the nature and foundations of nanoparticle synthesis. Features: Provides diagnostic tools for the characterization of nanoparticles Explores the cutting-edge EDMM method for the

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Characterization
synthesis and characterization of nanoparticles Discusses possible methods to overcome agglomeration of nanoparticles and achieve stable dispersion, in addition to examining the application suitability of synthesized nanoparticles

Recent advances in power electronics greatly benefit the multidisciplinary field of modern ultrasonics. More powerful, compact, and versatile electronic chips and software enable new computer-based devices for real-time data capture, storage, analysis, and display and advance the science and technology employed in commercial systems and application

Part I: Fundamentals of ultrasound This part will cover the main basic principles of ultrasound generation and propagation and those phenomena related to low and high

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Characterization applications. The mechanisms involved in food analysis and process monitoring and in food process intensification will be shown. Part II: Low intensity ultrasound applications Low intensity ultrasound applications have been used for non-destructive food analysis as well as for process monitoring. Ultrasonic techniques, based on velocity, attenuation or frequency spectrum analysis, may be considered as rapid, simple, portable and suitable for on-line measurements. Although industrial applications of low-intensity ultrasound, such as meat carcass evaluation, have been used in the food industry for decades, this section will cover the most novel applications, which could be considered as highly relevant for future application in the food industry. Chapters addressing this issue will be divided into three subsections: (1) food control, (2) process

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monitoring, (3) new trends. Part III: High intensity ultrasound applications High intensity ultrasound application constitutes a way to intensify many food processes. However, the efficient generation and application of ultrasound is essential to achieving a successful effect. This part of the book will begin with a chapter dealing with the importance of the design of efficient ultrasonic application systems. The medium is essential to achieve efficient transmission, and for that reason the particular challenges of applying ultrasound in different media will be addressed. The next part of this section constitutes an up-to-date vision of the use of high intensity ultrasound in food processes. The chapters will be divided into four sections, according to the medium in which the ultrasound vibration is transmitted from the transducers to the product being treated. Thus, solid, liquid,

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supercritical and gas media have been used for ultrasound propagation. Previous books addressing ultrasonic applications in food processing have been based on the process itself, so chapters have been divided in mass and heat transport, microbial inactivation, etc. This new book will propose a revolutionary overview of ultrasonic applications based on (in the authors' opinion) the most relevant factor affecting the efficiency of ultrasound applications: the medium in which ultrasound is propagated. Depending on the medium, ultrasonic phenomena can be completely different, but it also affects the complexity of the ultrasonic generation, propagation and application. In addition, the effect of high intensity ultrasound on major components of food, such as proteins, carbohydrates and lipids will be also covered, since this type of information has not been deeply studied in

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previous books. Other aspects related to the challenges of food industry to incorporate ultrasound devices will be also considered. This point is also very important since, in the last few years, researchers have made huge efforts to integrate fully automated and efficient ultrasound systems to the food production lines but, in some cases, it was not satisfactory. In this sense, it is necessary to identify and review the main related problems to efficiently produce and transmit ultrasound, scale-up, reduce cost, save energy and guarantee the production of safe, healthy and high added value foods.

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