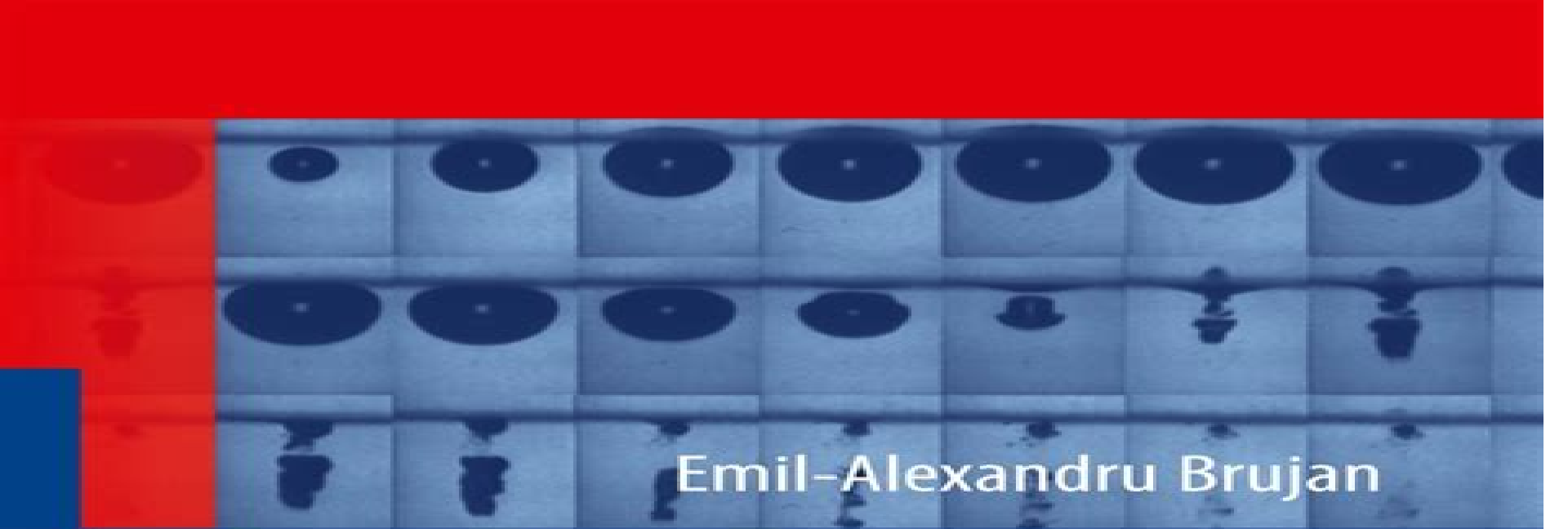




Emil-Alexandru Brujan

Cavitation in Non-Newtonian Fluids

**with biomedical and
bioengineering applications**

 Springer

Cavitation In Non Newtonian Fluids With Biomedical And Bioengineering Applications

**Phoevos Koukouviniis, Manolis
Gavaises**



Cavitation In Non Newtonian Fluids With Biomedical And Bioengineering Applications:

Cavitation in Non-Newtonian Fluids Emil Brujan, 2010-09-28 Non Newtonian properties on bubble dynamics and cavitation are fundamentally different from those of Newtonian fluids The most significant effect arises from the dramatic increase in viscosity of polymer solutions in an extensional flow such as that generated about a spherical bubble during its growth or collapse phase In addition many biological fluids such as blood synovial fluid and saliva have non Newtonian properties and can display significant viscoelastic behaviour This monograph elucidates general aspects of bubble dynamics and cavitation in non Newtonian fluids and applies them to the fields of biomedicine and bioengineering In addition it presents many examples from the process industries The field is strongly interdisciplinary and the numerous disciplines involve have and will continue to overlook and reinvent each others work This book helps researchers to think intuitively about the diverse physics of these systems to attempt to bridge the various communities involved and to convey the interest elegance and variety of physical phenomena that manifest themselves on the micrometer and microsecond scales

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Annual Guides to Graduate Study, 1974 **Cavitation in Biomedicine** Mingxi Wan, Yi Feng, Gail ter Haar, 2015-08-29 This book offers a systematic introduction to the engineering principles and techniques of cavitation in biomedicine on the basis of its physics and mechanism Adopting an interdisciplinary approach it covers areas of interest ranging from physics and engineering to the biological and medical sciences Individual chapters introduce the fundamentals of cavitation describe its characterization control and imaging techniques and present cavitation enhanced thermal and mechanical effects and their applications Intended as both a reference work for graduate students and as a guide for scientists and engineers who work with cavitation in biomedicine it provides a broad and solid foundation of knowledge The aim is to bridge the different

disciplines involved and to promote cross discipline research thus encouraging innovations in the scientific research and engineering applications alike Dr Mingxi Wan is a professor at Department of Biomedical Engineering Xi an Jiao Tong University Xi an Shaanxi China Dr Yi Feng works at Department of Biomedical Engineering Xi an Jiao Tong University Xi an Shaanxi China Dr Gail ter Haar is a professor at The Institute of Cancer Research Sutton Surry UK **Effects of Flow and Non-Newtonian Fluids on Nonspherical Cavitation Bubbles** United States. Office of Naval Research,1983 **The Effects of Flow and Non-Newtonian Fluids on Nonspherical Cavitation Bubbles** Stuart Kayo Hara,1983 Flow cavitation is substantially altered both at inception and during subsequent dynamics by the addition of small amounts of water soluble polymer Theoretical and experimental single bubble systems developed here trace the shape of a bubble as it is influenced by a volume change of the cavity the rheology of the surrounding fluid the presence of a solid wall and or an imposed external flow The theoretical formulation pertains to a bubble in a fluid which is infinite in extent and contains no barriers or interfaces apart from the bubble surface An external flow can be imposed imparting a stress history In addition a spherical bubble profile obtained from present experiments or theories dictates a volume change and drives the non sphericities Author **Advances in Modeling of Fluid Dynamics** Chaoqun Liu,2012-11-07 This book contains twelve chapters detailing significant advances and applications in fluid dynamics modeling with focus on biomedical bioengineering chemical civil and environmental engineering aeronautics astronautics and automotive We hope this book can be a useful resource to scientists and engineers who are interested in fundamentals and applications of fluid dynamics Cavitation Dynamics and Flow Fields in Dilute Polymer Solutions Robert Yen-ying Ting,1971

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