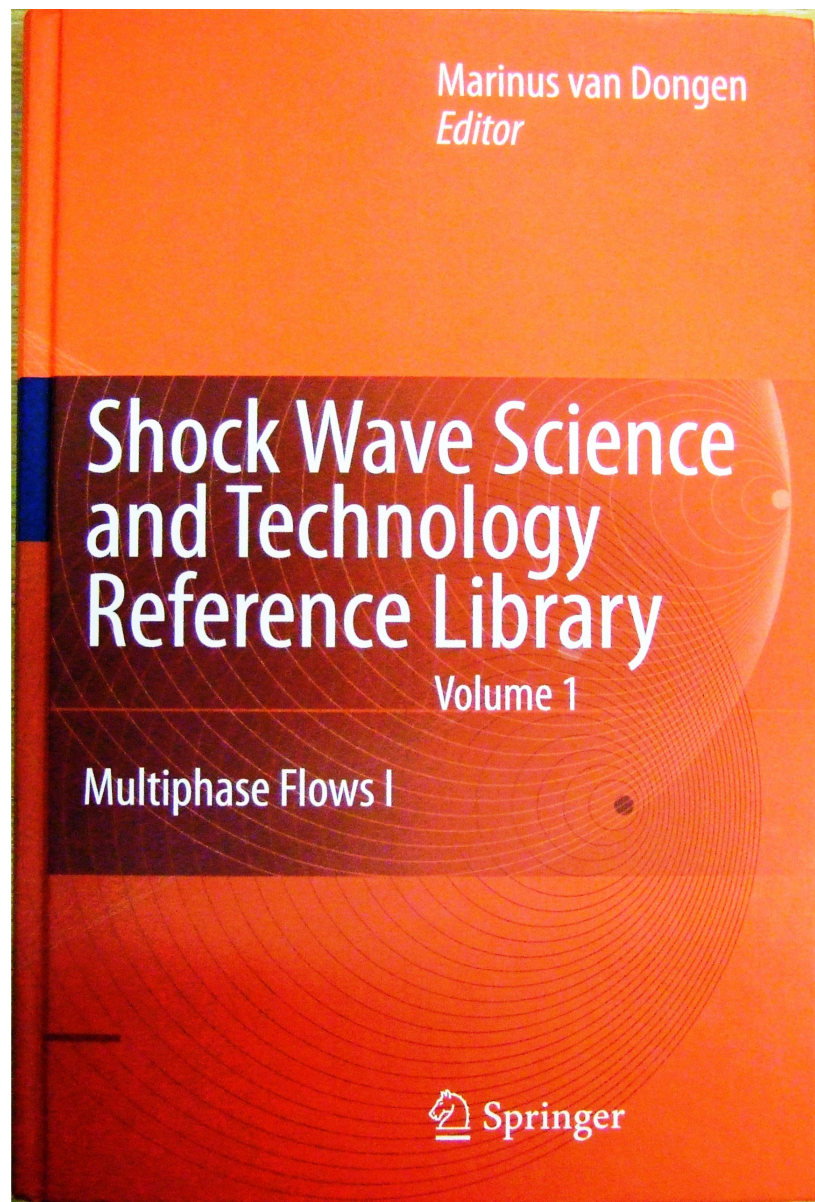


Complete reference

Guha, A., "Shock waves in fluids with interphase transport of mass, momentum and energy (vapour-droplet mixtures and solid-particle-laden gases)", In *Shock Wave Science and Technology Reference Library Volume 1: Multiphase Flows*, (ed. van Dongen, MEH), Springer, 2007, pp. 135-186. ISBN: 3540358455

Description

Only author from UK; invited to write the longest part of the book. This contribution synthesizes a coherent theoretical and computational analysis of shock waves and relaxation effects in two-phase flow. Constituent parts appeared in such journals as *Journal of Fluid Mechanics* and *Physics of Fluids*, in VKI Lecture Series (von Karman Institute), Keynote Lectures at international conferences, and short courses at Czech Academy of Sciences. Book's Editor (Prof van Dongen, Technische Universiteit Eindhoven) wrote on 09/08/2005: "It is indeed very obvious that you are a most important contributor to the book. Your contribution will be the most substantial one."



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Dr. Abhijit Guha's research interests are in the thermo-fluid-dynamics of multiphase flow, computational fluid dynamics, gas turbine, and solar energy. He obtained his PhD in Engineering from Trinity College, University of Cambridge, as the prestigious Prince of Wales Scholar. He later became a Senior Rouse Ball Scholar at Trinity College, and then a Fellow of Gonville & Caius College, Cambridge. While at Cambridge, his research was based at the Whittle Laboratory. In 1995 he joined the University of Bristol. He has published many, key and comprehensive, mostly single-authored, fundamental as well as applied research papers in top-ranking journals, books and conferences on a wide range of interdisciplinary topics. He has presented many keynote lectures, short courses and invited seminars, at international conferences and reputed institutions worldwide. In 1995 he delivered the renowned VKI Lecture Series (von Karman Institute, Belgium) on Two-phase Flows with Phase Transition. In 2000 he was elected to the Editorial Board of Journal of Aerosol Science. Dr. Guha taught Two-phase Heat Transfer at University of Cambridge, and now teaches Fluid Mechanics, Thermodynamics, and Aircraft Propulsion at Bristol. He received the University of Bristol Teaching Excellence Award in the very year of its inception.