

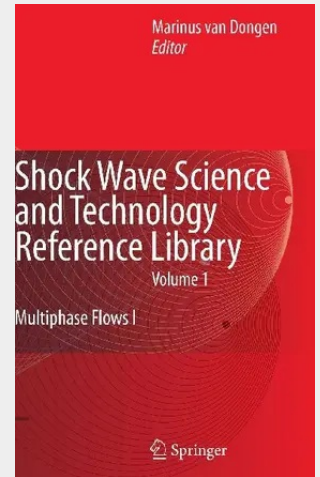
Shock Wave Science and Technology Reference Library, Vol. 1

Multiphase Flows I

Shock waves in multiphase flows refers to a rich variety of phenomena of interest to physicists, chemists, and fluid dynamicists, as well as mechanical, biomedical and aeronautical engineers. This volume treats shock and expansion waves in: - complex, bubbly liquids (L. van Wijngaarden, Y. Tomita, V. Kedrinskii) and - cryogenic liquids (M. Murakami) and examines the relationship of shock waves with - phase transitions (A. Guha, C.F. Delale, G. Schnerr, M.E.H. van Dongen) - induced phase transitions (G.E.A. Meier) as well as their interaction with - solid foams, textiles, porous and granular media (B. Skews, D.M.J. Smeulders, M.E.H. van Dongen, V. Golub, O. Mirova).

All chapters are self-contained, so they can be read independently, although they are of course thematically interrelated. Taken together, they offer a timely reference on shock waves in multiphase flows, including new viewpoints and burgeoning developments. The book will appeal to beginners as well as professional scientists and engineers.

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