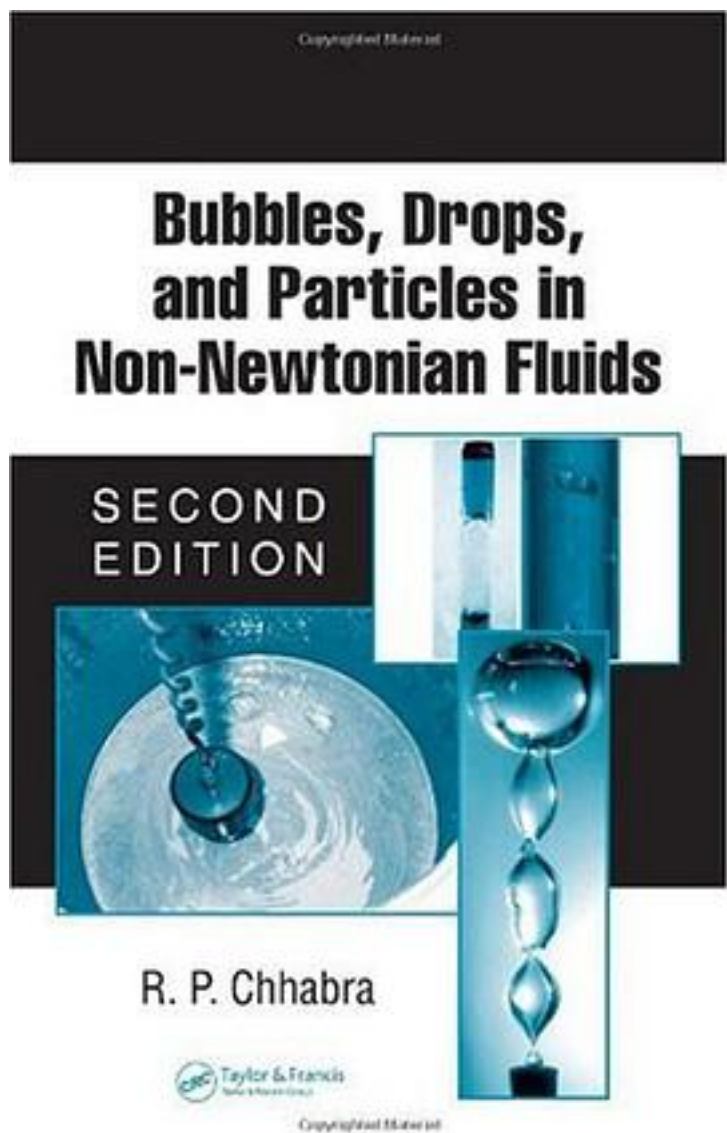


Bubbles, Drops, and Particles in Non-Newtonian Fluids, Second Edition (Chemical Industries)



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著者:R.P. Chhabra

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"Bubbles, Drops, and Particles in Non-Newtonian Fluids, Second Edition" continues to provide thorough coverage of the scientific foundations and the latest advances in particle motion in non-Newtonian media. The book demonstrates how dynamic behavior of single particles can yield useful information for modeling transport processes in complex multiphase flows. Completely revised and expanded, this second edition covers macroscopic momentum and heat/mass transfer from a single rigid or fluid particle or ensembles of particles involving strong inter-particle interactions including packed beds, fluidized beds, and porous media with different types of non-Newtonian fluids. It reflects advances made since the publication of the previous, bestselling edition with new material on topics such as extensional flow; time-independent, time-dependent and visco-elastic fluids; free settling behavior of non-spherical particles; and particle motion in visco-elastic and visco-plastic fluids, boundary layer flows, flows in porous media, and falling object rheometry. An excellent reference and handbook dealing with the technological aspects of non-Newtonian materials encountered in nature and in technology, this book highlights qualitative differences between the response of a Newtonian and non-Newtonian fluids in the complex flows encountered in processing applications.

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