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## The Phenomena of Fluid Motions

By S Robert Brodkey

Brodkey Publishing, United States, 2004. Paperback. Book Condition: New. 231 x 157 mm. Language: English Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Notable for its thoroughness and clarity, this well-written graduate-level text presents the theoretical background of fluid flow from the standpoint of the transport phenomena, relating momentum transport to other transport mechanisms. The book is divided into three main sections: Part I-A Theoretical Background to Fluid Flow; Part II-Applications of the Basic Flow Equations; Part III-Extensions of the Basic Flow Equations. When this book was first written, there was no single text, suitable for graduate students, dealing with fluid motion. It remained for Professor Brodkey (Emeritus, Chemical Engineering, Ohio State University) to tie together the disparate threads of the topic in a clear, well-organized exposition. To make the book as accessible as possible to first-year graduate students, the author introduces the simplifying method of vector notation, and vector and tensor notation are developed as an integral part of the first few chapters. Part I provides a theoretical background to fluid flow, as well as introducing the equations of change and the various flux vectors of transport theory, and culminates in the derivation of the Navier-Stokes equations. Part II focuses...



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