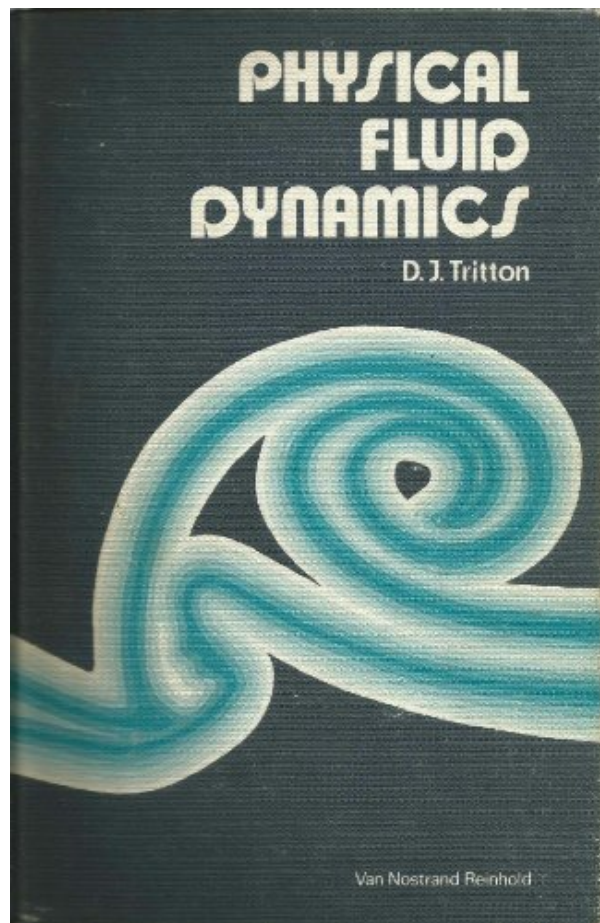
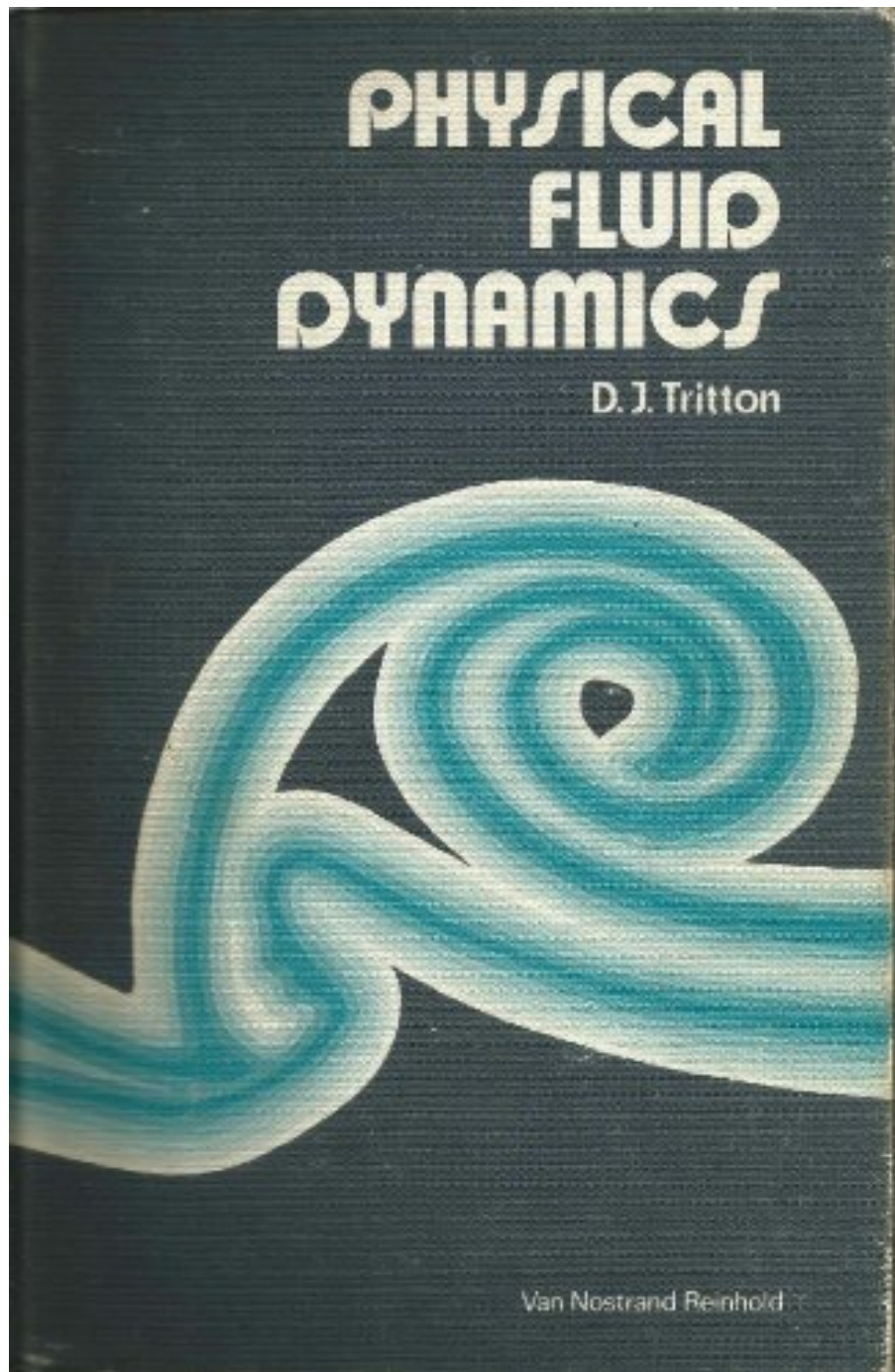


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The author here presents the dynamics of incompressible flow from the viewpoint of the physicist for the benefit of students and others in a variety of disciplines who need to understand fluid motion. The book will be of value to a wide range of readers, including those in the Earth sciences, physicists, engineers, and applied mathematicians.

About the Author

D. J. Tritton is at University of Newcastle upon Tyne.

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To classify a book as 'experimental' rather than 'theoretical' or as 'pure' rather than 'applied' is liable to imply unequal distinctions. Nevertheless, some classification is necessary to tell the potential reader whether the book is for him. In this spirit, this book may be said to treat fluid dynamics as a branch of physics, rather than as a branch of applied mathematics or of engineering. I have often heard expressions of the need for such a book, and certainly I have felt it in my own teaching. I have written it primarily for students of physics and of physics-based applied science, although I hope others may find it useful. The book differs from existing 'fundamental' books in placing much greater emphasis on what we know through laboratory experiments and their physical interpretation and less on the mathematical formalism. It differs from existing 'applied' books in that the choice of topics has been made for the insight they give into the behaviour of fluids in motion rather than for their practical importance. There are differences also from many existing books on fluid dynamics in the branches treated, reflecting to some extent shifts of interest in recent years. In particular, geophysical and astrophysical applications have prompted important fundamental developments in topics such as convection, stratified flow, and the dynamics of rotating fluids. These developments have hitherto been reflected in the contents of textbooks only to a limited extent.

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