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Peter J. Schmid, Dan S. Henningson



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Stability and Transition in Shear Flows Peter J. Schmid, Dan S. Henningson, 2012-12-06 The field of hydrodynamic stability has a long history going back to Reynolds and Lord Rayleigh in the late 19th century. Because of its central role in many research efforts involving fluid flow, stability theory has grown into a mature discipline firmly based on a large body of knowledge and a vast body of literature. The sheer size of this field has made it difficult for young researchers to access this exciting area of fluid dynamics. For this reason, writing a book on the subject of hydrodynamic stability theory and transition is a daunting endeavor, especially as any book on stability theory will have to follow into the footsteps of the classical treatises by Lin (1955), Bethe (1967), Joseph (1971), and Drazin & Reid (1981). Each of these books has marked an important development in stability theory and has laid the foundation for many researchers to advance our understanding of stability and transition in shear flows.

Physics of Transitional Shear Flows Andrey V. Boiko, Alexander V. Dovgal, Genrikh R. Grek, Victor V. Kozlov, 2011-09-15 Starting from fundamentals of classical stability theory, an overview is given of the transition phenomena in subsonic wall-bounded shear flows. At first, the consideration focuses on elementary small-amplitude velocity perturbations of laminar shear layers, i.e., instability waves in the simplest canonical configurations of a plane channel flow and a flat plate boundary layer. Then the linear stability problem is expanded to include the effects of pressure gradients, flow curvature, boundary layer separation, wall compliance, etc., related to applications. Beyond the amplification of instability waves is the non-modal growth of local stationary and non-stationary shear flow perturbations, which are discussed as well. The volume continues with the key aspect of the transition process that is receptivity of convectively unstable shear layers to external perturbations, summarizing main paths of the excitation of laminar flow disturbances. The remainder of the book addresses the instability phenomena found at late stages of transition. These include secondary instabilities and nonlinear features of boundary layer perturbations that lead to the final breakdown to turbulence. Thus, the reader is provided with a step-by-step approach that covers the milestones and recent advances in the laminar-turbulent transition. Special aspects of instability and transition are discussed throughout the book and are intended for research scientists, while the main target of the book is the student in the fundamentals of fluid mechanics. Computational guides, recommended exercises, and PowerPoint multimedia notes based on results of real scientific experiments supplement the monograph. These are especially helpful for the neophyte to obtain a solid foundation in hydrodynamic stability. To access the supplementary material, go to extras.springer.com and type in the ISBN for this volume.

Rheology of Complex Fluids Abhijit P. Deshpande, J. Murali Krishnan, Sunil Kumar, 2010-09-20 The aim of the School on Rheology of Complex fluids is to bring together young researchers and teachers from educational and R & D institutions and expose them to the basic concepts and research techniques used in the study of rheological behavior of complex fluids. The lectures will be delivered by well-recognized experts. The book contents will be based on the lecture notes of the school.

Principles of Turbulence Control Baochun

Fan,Gang Dong,2022-05-17 This book introduces the mathematical techniques for turbulence control in a form suitable for inclusion in an engineering degree program at both undergraduate and postgraduate levels whilst also making it useful to researchers and industrial users of the concepts It uses a mix of theory computation and experimental results to present and illustrate the methodologies It is based on the three part structure wall turbulence open loop control and feedback control with emphasis on optimal control methodologies The book also includes an introduction of basic principles and fundamentals followed by a chapter on the structure of wall turbulence with emphasis on coherent structures Elsewhere there is focus on control methods of wall turbulence by manipulating the boundaries through their motion and by applying control forces throughout the flow volume The last two chapters will describe the linear and non linear optimal controls This integrated approach will help not only researchers interested in the topic but also graduate or advanced undergraduate students in their course work **Fluid Mechanics and Fluid Power (Vol. 3)** Suvanjan Bhattacharyya,Saket Verma,A. R.

Harikrishnan,2023-04-17 This book presents the select proceedings of the 48th National Conference on Fluid Mechanics and Fluid Power FMFP 2021 held at BITS Pilani in December 2021 It covers the topics such as fluid mechanics measurement techniques in fluid flows computational fluid dynamics instability transition and turbulence fluid structure interaction multiphase flows micro and nanoscale transport bio fluid mechanics aerodynamics turbomachinery propulsion and power The book will be useful for researchers and professionals interested in the broad field of mechanics *New Trends in Fluid Mechanics Research* F. G. Zhuang,J. C. Li,2009-04-24

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Handbook of Fluid Dynamics Richard W. Johnson,2016-04-06 Handbook of Fluid Dynamics offers balanced coverage of the three traditional areas of fluid dynamics theoretical computational and experimental complete with valuable appendices presenting the mathematics of fluid dynamics tables of dimensionless numbers and tables of the properties of gases and vapors Each chapter introduces a different fluid dynamics topic discusses the pertinent issues outlines proven techniques for addressing those issues and supplies useful references for further research Covering all major aspects of

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