

M.Y. Hussaini A. Kumar
C.L. Streett Editors

Instability, Transition, and Turbulence



Springer-Verlag

Instability Transition And Turbulence Icase Ser

**G.H. Schnerr, R. Bohning, K. Bühler, W.
Frank**



Instability Transition And Turbulence Icase Ser:

Hydrodynamic Instability and Transition to Turbulence Akiva M. Yaglom, 2012-12-18 This book is a complete revision of the part of Monin Yaglom's famous two volume work *Statistical Fluid Mechanics Mechanics of Turbulence* that deals with the theory of laminar flow instability and transition to turbulence It includes the considerable advances in the subject that have been made in the last 15 years or so It is intended as a textbook for advanced graduate courses and as a reference for research students and professional research workers The first two Chapters are an introduction to the mathematics and the experimental results for the instability of laminar or inviscid flows to infinitesimal in practice small disturbances The third Chapter develops this linear theory in more detail and describes its application to particular problems Chapters 4 and 5 deal with instability to finite amplitude disturbances much of the material has previously been available only in research papers

IUTAM Symposium on Dynamics of Slender Vortices Egon Krause, K. Gersten, 2012-12-06 The decision of the General Assembly of the International Union of Theoretical and Applied Mechanics to organize a Symposium on Dynamics of Slender Vortices was greeted with great enthusiasm The acceptance of the proposal forwarded by the Deutsches Komitee für Mechanik DEKOMECH signaled that there was a need for discussing the topic chosen in the frame the IUTAM Symposia offer Also the location of the symposium was suitably chosen It was decided to hold the symposium at the RWTH Aachen where years ago Theodore von Karman had worked on problems related to those to be discussed now anew It was clear from the beginning of the planning that the symposium could only be held in the von Karman Auditorium of the Rheinisch Westfälische Technische Hochschule Aachen a building named after him The symposium was jointly organized by the editors of this volume strongly supported by the local organizing committee The invitations of the scientific committee brought together scientists actively engaged in research on the dynamics of slender vortices It was the aim of the committee to have the state of the art summarized and also to have the latest results of specific problems investigated communicated to the participants of the symposium The topics chosen were asymptotic theories numerical methods vortices in shear layers interaction of vortices vortex breakdown vortex sound and aircraft and helicopter vortices Aeroacoustics of Flight

Vehicles Harvey H. Hubbard, 1991 *Mathematical Reviews*, 2004 **Instability, Transition, and Turbulence** M.Y. Hussaini, A. Kumar, C.L. Streett, 2012-12-06 This volume contains the proceedings of the Workshop on Instability Transition and Turbulence sponsored by the Institute for Computer Applications in Science and Engineering ICASE and the NASA Langley Research Center LaRC during July 8 to August 2 1991 This is the second workshop in the series on the subject The first was held in 1989 and its proceedings were published by Springer Verlag under the title *Instability and Transition* edited by M Y Hussaini and R G Voigt The objectives of these workshops are to i expose the academic community to current technologically important issues of transition and turbulence in shear flows over the entire speed range ii acquaint the academic community with the unique combination of theoretical computational and experimental capabilities at LaRC and

foster interaction with these capabilities and iii accelerate progress in elucidating the fundamental phenomena of transition and turbulence leading to improved transition and turbulence modeling in design methodologies The research areas covered in these proceedings include receptivity and roughness nonlinear theories of transition numerical simulation of spatially evolving flows modelling of transitional and fully turbulent flows as well as some experiments on instability and transition In addition a one day mini symposium was held to discuss 1 recent and planned experiments on turbulent flow over a backward facing step

Fluid- and Gasdynamics G.H. Schnerr, R. Bohning, K. Bühler, W. Frank, 2013-03-08 This volume offers a wide range of theoretical numerical and experimental research papers on fluid dynamics The major fields of research fundamentals of fluid mechanics as well as their applications are treated stability phenomena convective flow thermal and hydrodynamic systems transition turbulence and separation boundary layer turbulent combustion rarefied gasdynamics near wall and off wall flow fields energy dissipation transonic flow homogeneous condensation shock waves effects at Mach number unity hypersonic flow flow over spheres aerothermodynamics relaxation fluid machinery axial fans compressor cascades fluid couplings computational fluid dynamics passive shock control zonal computation cylinderflow flow over wings miscellaneous problems

Instability, Transition, and Turbulence M.Y. Hussaini, A. Kumar, C.L. Streett, 1992-09-23 This volume contains the proceedings of the Workshop on Instability Transition and Turbulence sponsored by the Institute for Computer Applications in Science and Engineering ICASE and the NASA Langley Research Center LaRC during July 8 to August 2 1991 This is the second workshop in the series on the subject The first was held in 1989 and its proceedings were published by Springer Verlag under the title Instability and Transition edited by M Y Hussaini and R G Voigt The objectives of these workshops are to i expose the academic community to current technologically important issues of transition and turbulence in shear flows over the entire speed range ii acquaint the academic community with the unique combination of theoretical computational and experimental capabilities at LaRC and foster interaction with these capabilities and iii accelerate progress in elucidating the fundamental phenomena of transition and turbulence leading to improved transition and turbulence modeling in design methodologies The research areas covered in these proceedings include receptivity and roughness nonlinear theories of transition numerical simulation of spatially evolving flows modelling of transitional and fully turbulent flows as well as some experiments on instability and transition In addition a one day mini symposium was held to discuss 1 recent and planned experiments on turbulent flow over a backward facing step

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Wakes, Dynamics and Instabilities Helmut Eckelmann, J. Michael R. Graham, Patrick Huerre, Peter A. Monkewitz, 2013-11-11

Bluff body wakes play an important role in many fluid dynamics problems and engineering applications. This book gives an up to date account of recent results obtained in the study of bluff body wakes. Experimental, theoretical and numerical approaches are all comprehensively covered and compared. Topics of particular interest include hydrodynamic instability, analyses of three dimensional pattern formation problems, flow control methods, bifurcation analyses, numerical simulations and turbulence modelling. The main originality of this volume is that recent conceptual advances made to describe nonlinear phenomena in general are put to the test on a classical problem in fundamental fluid mechanics, namely the wake structure generated behind a bluff object.

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