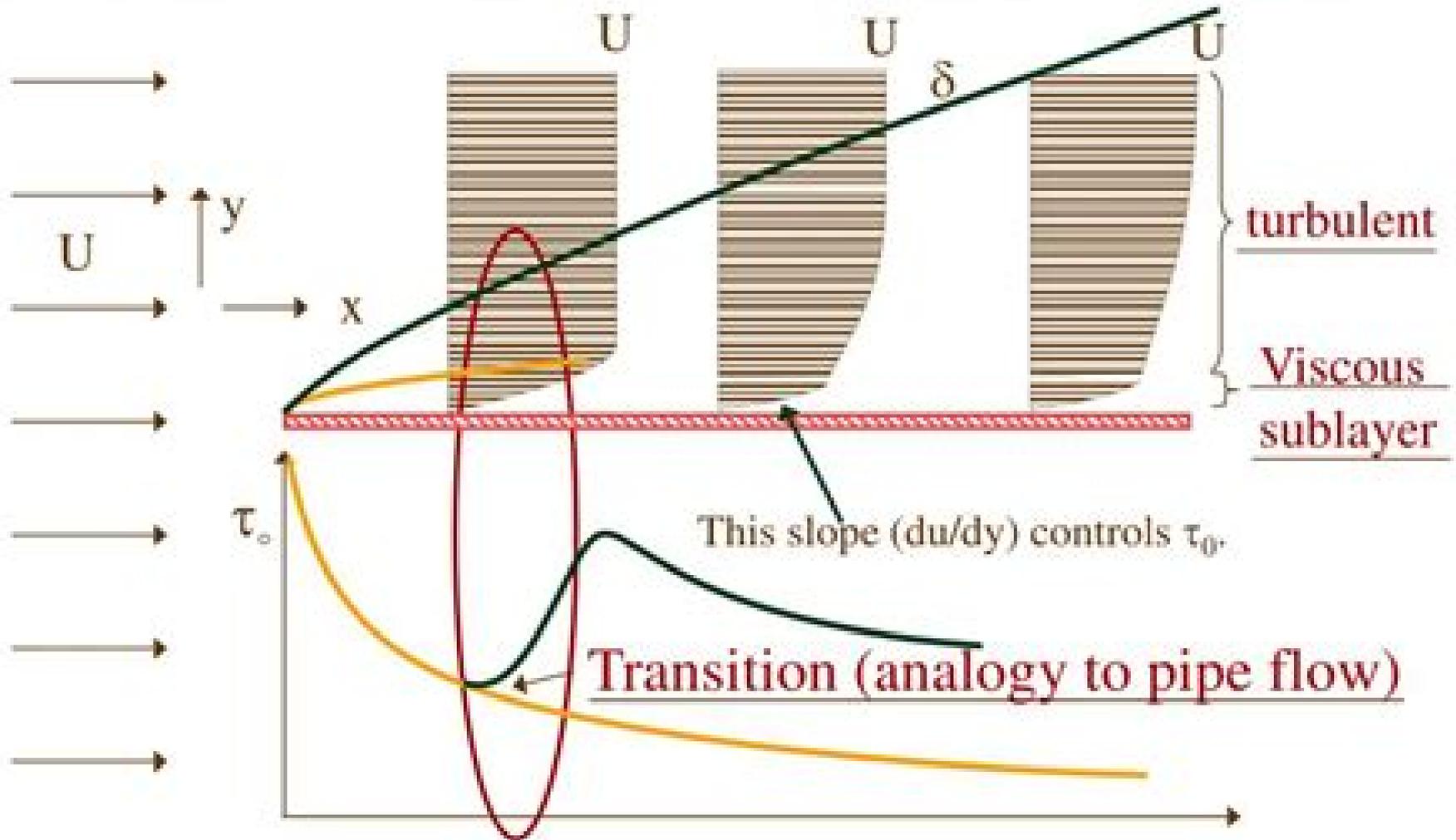


# Transition to Turbulence



# Transition And Turbulence

**Mark Vladimir Morkovin**



## **Transition And Turbulence:**

*Numerical Simulation of Unsteady Flows and Transition to Turbulence* O. Pironneau, 1992-07-31 This volume represents the findings of the first test cases considered by ERCOFTAC European Research Consortium on Flow Turbulence and Combustion The workshop held in Lausanne Switzerland in 1990 studied five test cases which represent the interests of both the academic and industrial groups

**Transition to Turbulence** Tapan SenGupta, 2020-12 Present understanding of transition to turbulence has now been studied over one hundred and fifty years The path the studies have taken posed it as a modal eigenvalue problem Some researchers have suggested alternative models without being specific First principle based approach of receptivity is the route to build bridges among ideas for solving the Navier Stokes equation for specific canonical problems This book highlights the mathematical physics scientific computing and new ideas and theories for nonlinear analyses of fluid flows for which vorticity dynamics remain central This book is a blend of classic with distinctly new ideas which establish different dynamics of flows from genesis to evolution of disturbance fields with rigorously developed methods to tracing coherent structures amidst the seemingly random and chaotic fluid dynamics of transitional and turbulent flows

**Transition, Turbulence, and Noise** Reda R. Mankbadi, 2013-11-27 Turbulence takes place in most flow situations whether they occur naturally or in technological systems Therefore considerable effort is being expended in an attempt to understand the phenomenon of turbulence The recent discovery of coherent structure in turbulent shear flows and the modern developments in computer capabilities have revolutionized research work in turbulence There is a strong evidence that the coherent structure in turbulent shear flows is reminiscent of nonlinear stability waves As such the interest in nonlinear stability waves has increased not only for the understanding of the latter stages of the laminar turbulent transition process but also for understanding the coherent structures in turbulent flows Also the advances in computers have made direct numerical simulation possible at low Reynolds numbers and large eddy simulation possible at high Reynolds numbers This made first principles prediction of turbulence generated noise feasible Therefore this book aims at presenting a graduate level introductory study of turbulence while accounting for such recent views of concern to researchers This book is an outgrowth of lecture notes on the subject offered to graduate students in engineering The book should be of interest to research engineers and graduate students in science and engineering The theoretical basis presented is sufficient not only for studying the specialized literature on turbulence but also for theoretical investigations on the subject

*Instability, Transition, and Turbulence* M.Y. Hussaini, A. Kumar, C.L. Streett, 2012-12-06 This volume contains the proceedings of the Workshop on In stability 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 work shops 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 *Transition to Turbulence* Tapan K. Sengupta,2021-09-30

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 Order in Chaos Gavin Hamilton,2011 Instabilities of Flows and Transition to Turbulence Tapan K. Sengupta,2012-04-24 Addressing classical material as well as new perspectives Instabilities of Flows and Transition to Turbulence presents a concise up to date treatment of theory and applications of viscous flow instability It covers materials from classical instability to contemporary research areas including bluff body flow instability mixed convection flows and application areas of aerospace and other branches of engineering Transforms and perturbation techniques are used to link linear instability with receptivity of flows as developed by the author The book Provides complete coverage of transition concepts including receptivity and flow instability Introduces linear receptivity using bilateral Fourier Laplace transform techniques Presents natural laminar flow NLF airfoil analysis and design as a practical application of classical and bypass transition Distinguishes strictly between instability and receptivity which leads to identification of wall and free stream modes Describes energy based receptivity theory for the description of bypass

transitions Instabilities of Flows and Transition to Turbulence has evolved into an account of the personal research interests of the author over the years A conscious effort has been made to keep the treatment at an elementary level requiring rudimentary knowledge of calculus the Fourier Laplace transform and complex analysis The book is equally amenable to undergraduate students as well as researchers in the field Transition and Turbulence Richard E. Meyer,1981

**Turbulence and Transition in Supersonic and Hypersonic Flows** Johan Larsson,Xiaolin Zhong,2025-09-01

Turbulence and Transition in Supersonic and Hypersonic Flows explains how to understand and mathematically model these phenomena with an emphasis on the unique challenges and features that the compressibility of the fluid introduces This timely book responds to an increase in research interest in this topic explaining how to use the latest numerical methods as well as providing important background theory It covers both the problem of how a laminar boundary layer transitions to turbulence in the supersonic and hypersonic regime and the problem of how compressibility of a fluid affects turbulence Compressible flows are important in many areas of engineering including external aerodynamics internal flows in propulsion and power generation applications flows in supercritical fluids and many others Provides an interdisciplinary approach to this topic drawing on physics applied math and fluid mechanics Explains theory and modeling of high speed turbulent shear layers Addresses astrophysical applications such as star formation

**Transition And Turbulence Control** Mohamed Gad-el-hak,Her Mann Tsai,2005-12-27 This volume contains articles based on lectures given at the Workshop on Transition and Turbulence Control hosted by the Institute for Mathematical Sciences National University of Singapore 8 10 December 2004 The lecturers included 13 of the world s foremost experts in the control of transitioning and turbulent flows The chapters cover a wide range of subjects in the broad area of flow control and will be useful to researchers working in this area in academia government laboratories and industry The coverage includes control theory passive active and reactive methods for controlling transitional and turbulent wall bounded flows noise suppression and mixing enhancement of supersonic turbulent jets compliant coatings modern flow diagnostic systems and swept wing instabilities

**Transition, Turbulence and Combustion** M.Y. Hussaini,Thomas B. Gatski,Thomas L. Jackson,2012-12-06 These two volumes contain the proceedings of the Workshop on Transition Turbulence and Combustion sponsored by the Institute for Computer Applications in Science and Engineering ICASE and the NASA Langley Research Center LaRC during June 7 to July 2 1993 Volume I contains the contributions from the transition research and Volume II contains the contributions from both the turbulence and combustion research This is the third workshop in the series on the subject The first was held in 1989 the second in 1991 and their proceedings were published by Springer Verlag under the titles Instability and Transition edited by M Y Hussaini and R G Voigt and Instability Transition and Turbulence edited by M Y Hussaini A Kumar and C L Streett respectively The objectives of these workshops are to expose the academic community to current technologically important issues of transition turbulence and combustion and to acquaint the academic community with the unique combination of

theoretical computational and experimental capabilities at LaRC It is hoped these will foster continued interactions and accelerate progress in elucidating the fundamental phenomena of transition turbulence and combustion The research areas of interest in transition covered the full range of the subject linear and nonlinear stability direct and large eddy simulation and phenomenological modeling of the transition zone **Stability, Transition, and Turbulence** M. Y. Hussaini, 1987

*The Origin of Turbulence in Near-Wall Flows* A.V. Boiko, 2002-01-22 This book presents a comprehensive survey of the origin of turbulence in near wall shear layer flows Instead of going too far into details modern approaches to the problem are discussed in a conceptual treatment The transition from laminar to turbulent flows in shear layers is described including the generation of flow perturbations their amplification and development the breakdown of the initial laminar state and transformation to a turbulent regime This book also presents new approaches to boundary layer transitions with strong external flow perturbations and to the prediction and control of the presented near wall transitions to turbulence This book is addressed to researchers lecturers and students in engineering physics and mathematics *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 Seventh IUTAM Symposium on Laminar-Turbulent Transition Philipp Schlatter, Dan S. Henningson, 2010-03-11 The origins of turbulent flow and the transition from laminar to turbulent flow are the most important unsolved problems of fluid mechanics and aerodynamics since being a fundamental question of fluid mechanics there are numerous applications relying on information regarding transition location and the details of the subsequent turbulent flow For example the control of transition to turbulence is especially important in 1 skin friction reduction of energy efficient aircraft 2 the performance of heat exchangers and diffusers 3 propulsion requirements for supersonic aircraft and 4 separation control While considerable progress has been made in the science of laminar to turbulent transition over the last 30 years the continuing increase in computer power as well as new theoretical developments are now revolutionizing the area It is now starting to be possible to move from simple 1D eigenvalue problems in canonical flows to global modes in complex flows all accompanied by accurate large scale direct numerical simulations DNS Here novel experimental techniques such as modern particle image velocimetry PIV also have an important role Theoretically the influence of non-normality on the stability and transition is gaining importance in particular for complex

ows At the same time the enigma of transition in the oldest ow investigated Reynolds pipe ow tran tion experiment is regaining attention Ideas from dynamical systems together with DNS and experiments are here giving us new insights

*Instability, Transition to Turbulence and Predictability* Mark Vladimir Morkovin,1978 Contained herein is a concise state of the art review and perspective on the phenomenon of transition which constituted the Opening Address at the Fluid Dynamics Panel Symposium on Laminar Turbulent Transition AGARD CP 224 Various instability mechanisms leading to transition are proposed and discussed A valuable insight is provided based on existing experimental evidence and postulated flow structures Critical questions are asked relating to the conceptual foundations on which much of the transitional effort is based To enhance our understanding of the basic mechanisms and processes detailed microscopic experiments are encouraged to increase the data base

*Transition and Turbulence* Richard E. Meyer,2014-05-10 Mathematics Research Center Symposia and Advanced Seminar Series Transition and Turbulence covers the lectures presented at the Symposium on Transition and Turbulence in Fluids held in Madison Wisconsin on October 13 15 1980 under the auspices of the Mathematics Research Center of the University of Wisconsin Madison The book focuses on the relation between transition and turbulence in fluids and the importance of this relation for the understanding of many real fluid motions The selection first elaborates on transition in flow between rotating concentric cylinders observations in the Taylor experiment and transition to turbulence in thermal convection with and without rotation Discussions focus on low aspect ratio convection layers random convection in a rotating layer unsteady flows at high Reynolds numbers transition to oscillatory motion and experimental observations The text then tackles instability and turbulence in jets instability and transition in pipes and channels and transition to turbulence in boundary layers The book ponders on coherent structures in turbulence interactions between large scale coherent structures and fine grained turbulence in free shear flows and vortex interactions and coherent structures in turbulence Topics include atomic and molecular representations vortices in uniform strain vortex pairs numerical computations applied to a simple problem agglomeration of large scale structures and subharmonic formation retrieving phase information and dynamical equations The selection is highly recommended for researchers interested in pursuing further studies on transition and turbulence

**Robustness and Transition to Turbulence in Boundary Layer Flows** ,2001 Understanding the dynamics of transition to turbulence in shear flows has been a long standing problem and although substantial progress has been made in various directions to this effect there is still no consistent theory As prt of AFOSR MURI project Uncertainty Management in Complex Systems at the California Institute of Technology CalTech with John Doyle as the principal investigator a novel theory was developed on the transition to turbulence borrowing notions from control theory This provides a promising framework that will help explain the various experimental observations of transition to turbulence In order to make an accurate comparison between theory computation and experiment a boundary layer experiment was designed using state of the art three dimensional instantaneous measurement techniques In this report we

discuss the details of the experiment and its connections with the ongoing theory and computations      *Transition, Turbulence and Combustion* M.Y. Hussaini, Thomas B. Gatski, Thomas L. Jackson, 2012-10-20 These two volumes contain the proceedings of the Workshop on Transition Turbulence and Combustion sponsored by the Institute for Computer Applications in Science and Engineering ICASE and the NASA Langley Research Center LaRC during June 7 to July 2 1993 Volume I contains the contributions from the transition research and Volume II contains the contributions from both the turbulence and combustion research This is the third workshop in the series on the subject The first was held in 1989 the second in 1991 and their proceedings were published by Springer Verlag under the titles *Instability and Transition* edited by M Y Hussaini and R G Voigt and *Instability Transition and Turbulence* edited by M Y Hussaini A Kumar and C L Streett respectively The objectives of these workshops are to expose the academic community to current technologically important issues of transition turbulence and combustion and to acquaint the academic community with the unique combination of theoretical computational and experimental capabilities at LaRC It is hoped these will foster continued interactions and accelerate progress in elucidating the fundamental phenomena of transition turbulence and combustion The research areas of interest in transition covered the full range of the subject linear and nonlinear stability direct and large eddy simulation and phenomenological modeling of the transition zone

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