



On the Correlation Between Large-Scale Structures in the Vicinity of Turbulent/Non-turbulent Interface and Wall Pressure Within the Turbulent Boundary Layer

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Abstract. The present work investigates the relation between large-scale coherent structures in the vicinity of turbulent/non-turbulent interface and corresponding pressure fluctuations within the turbulent boundary layer (TBL) close to the trailing edge of the NACA0012 airfoil. The planar particle image velocimetry (PIV) measurements were conducted to capture the instantaneous velocity fields, with simultaneous wall-pressure fluctuation measurement obtained by miniature transducers. Based on the identifications of high amplitude pressure peaks (HAPPs) in the pressure signal, the corresponding simultaneous measured velocity fields are conditionally averaged, revealing the dominance of high-speed large-scale motions (LSMs). The simultaneously measured pressure fluctuations are conditionally extracted based on the occurrence of low- and high-speed LSMs. Results show that high-speed LSMs induce high-energy positive pressure fluctuations, especially when located upstream of the reference wall pressure transducer. The correlation analysis between various scale velocities acquired by empirical modal decomposition (EMD) and the reference pressure signal is conducted. It is demonstrated that upstream high-speed motions with sweeps accompanied by downstream low-speed motions with ejections are responsible for the positive pressure fluctuations, while the negative pressure fluctuations are attributed to the adverse arrangement. It is also observed that the sourced coherent structures of pressure fluctuations can expand outside the TBL, with significant momentum exchange across the turbulent/non-turbulent interface (TNTI).

Keywords: Turbulent Boundary Layer · Coherent Structures · Wall Pressure Fluctuations · Velocity – Pressure Correlation

1 Introduction

The wall-pressure fluctuations in the turbulent boundary layer (TBL) play a key role in noise generation and structure vibrations (Seongkyu Lee et al. 2021). Especially for a trailing edge turbulent boundary layer, the scattering of wall pressure fluctuation at the

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Coherent Structures in Parietal Turbulent Flows Tardu Sedat, 2015-11-09 The wall is a source of many complexities including turbulence modeling and thus requires a thorough understanding of all the physics involved Coherent Structures in Parietal Turbulent Flows provides scientists researchers and engineers with all the necessary information on the physical analysis measurement and calculation of these flows Taking into account the latest developments in the field the author discusses the fundamentals of turbulence phenomenology and closures of spectral behavior the effect of the Reynolds number on parietal turbulence characteristics and transport of vorticity *Aeronautical Engineering: A Cumulative Index to a Continuing Bibliography (supplement 300)*, 1994 **Scientific and Technical Aerospace Reports**, 1990 **Lecture Notes on Turbulence and Coherent Structures in Fluids, Plasmas and Nonlinear Media** Michael Shats, Horst Punzmann, 2006 This book is based on the lectures delivered at the 19th Canberra International Physics Summer School held at the Australian National University in Canberra Australia in January 2006 The problem of turbulence and coherent structures is of key importance in many fields of science and engineering It is an area which is vigorously researched across a diverse range of disciplines such as theoretical physics oceanography atmospheric science magnetically confined plasma nonlinear optics etc Modern studies in turbulence and coherent structures are based on a variety of theoretical concepts numerical simulation techniques and experimental methods which cannot be reviewed effectively by a single expert The main goal of these lecture notes is to introduce state of the art turbulence research in a variety of approaches theoretical numerical simulations and experiments and applications fluids plasmas geophysics nonlinear optical media by several experts A smooth introduction is presented to readers who are not familiar with the field while reviewing the most recent advances in the area This collection of lectures will provide a useful review for both postgraduate students and researchers new to the advancements in this field as well as specialists seeking to expand their knowledge across different areas of turbulence research On the Detection of Coherent Structures in Turbulent Flows Joseph Mathias Gerardus Kunen, 1984

Measurement Techniques in Heat and Mass Transfer Rem Ivanovich Soloukhin, Naim Hamdia Afgan, 1985

Turbulence and Coherent Structures O. Métais, Marcel Lesieur, 2014-03-14 In the last 25 years one of the most striking advances in Fluid Mechanics was certainly the discovery of coherent structures in turbulence laboratory experiments and numerical simulations have shown that most turbulent flows exhibit both spatially organized large scale structures and disorganized motions generally at smaller scales The development of new measurement and visualization techniques have allowed a more precise characterization and investigation of these structures in the laboratory Thanks to the unprecedented increase of computer power and to the development of efficient interactive three dimensional colour graphics computational fluid dynamicists can explore the still mysterious world of turbulence However many problems remain unsolved concerning the origin of these structures their dynamics and their interaction with the disorganized motions In this

book will be found the latest results of experimentalists theoreticians and numerical modellers interested in these topics These coherent structures may appear on airplane wings or slender bodies mixing layers jets wakes or boundary layers In free shear flows and in boundary layers the results presented here highlight the intense three dimensional character of the vortices The two dimensional large scale eddies are very sensitive to three dimensional perturbations whose amplification leads to the formation of three dimensional coherent vortical structures such as streamwise hairpin or horseshoe vortex filaments This book focuses on modern aspects of turbulence study Relations between turbulence theory and optimal control theory in mathematics are discussed This may have important applications with regard to e g numerical weather forecasting

Coherent Structures in Turbulent Flows Roi Gurka, Tekhniyon, Makhon tekhnologi le-Yisra'el. Fa'ultah le-handasat mekhonot, 2003 On the detection of coherent structures in turbulent flows Joseph M. Kunen, 1984 Characterization of Coherent Structures in Turbulent Flows Alex Liberzon, Tekhniyon, Makhon tekhnologi le-Yisra'el. Fa'ultah le-handasat mekhonot, 2003 **Study of Coherent Structures in Turbulent Flows Using Proper Orthogonal Decomposition** Maziar Eslami Samani, 2014 *Coherent Structures and Control in Wall-bounded Turbulent Flows* Marco Atzori, 2021

New Approaches and Concepts in Turbulence T. Dracos, A. Tsinober, 2012-10-11 This book contains the proceedings of a colloquium held in Monte Verit from September 9-13 1991 Special care has been taken to devote adequate space to the scientific discussions which claimed about half of the time available Scientists from all over the world presented their views on the importance of kinematic properties topology and fractal geometry and on the dynamic behaviour of turbulent flows They debated the importance of coherent structures and the possibility to incorporate these in the statistical theory of turbulence as well as their significance for the reduction of the degrees of freedom and the prospective of dynamical systems and chaos approaches to the problem of turbulence Also under discussion was the relevance of these new approaches to the study of the instability and the origin of turbulence and the importance of numerical and physical experiments in improving the understanding of turbulence **Coherent Structures and Statistical Mechanics in Two-dimensional Flows** Hanna Brands, 1998 **Dynamics of Coherent Structures in Turbulent Flow Over a Backwards-facing Step** Stephen J. Wilkins, 2019 The Essence of Turbulence as a Physical Phenomenon Arkady Tsinober, 2018-12-17 Now in its second edition this book clearly concisely and comprehensively outlines the essence of turbulence In view of the absence of a theory based on first principles and adequate tools to handle the problem the essence of turbulence i e what turbulence really is from a fundamental point of view is understood empirically through observations from nature laboratories and direct numerical simulations rather than explained by means of conventional formalistic aspects models etc resulting in pertinent issues being described at a highly theoretical level in spite of the mentioned lack of theory As such the book highlights and critically reexamines fundamental issues especially those of paradigmatic nature related to conceptual and problematic aspects key misconceptions and unresolved matters and discusses why the problem is so difficult As in the previous edition

the focus on fundamental issues is also a consequence of the view that without corresponding advances in fundamental aspects there is little chance of progress in any applications More generally there is a desperate need for physical fundamentals of a great variety of processes in nature and technology in which turbulence plays a central role Turbulence is omnipresent throughout the natural sciences and technology but despite the vast sea of information available the book retains its brevity without oversimplifications making it of interest to a broad audience

Coherent Structures and Transient Amplification Mechanisms in Transitional and Turbulent Flows Yuxin Jiao,2022 [Turbulence in Open Channel Flows](#) Hiroji Nakagawa,Iehisa Nezu,2017-10-02 A review of open channel turbulence focusing especially on certain features stemming from the presence of the free surface and the bed of a river Part one presents the statistical theory of turbulence Part two addresses the coherent structures in open channel flows and boundary layers 1969, 湍流の統計的表現 **Statistical Representations of Coherent Structures in Turbulent Flow Fields** David Hugh Chambers,1987

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