

CONTENTS

Commenced in May 1980

Vol. 40 No. 2 Feb. 2019 (Monthly)

Preface: symposium on turbulence structures and aerodynamic heat/force (STSAHF2018)
— scientific significance of turbulence research (181)
Cunbiao LEE, Zuoli XIAO, Shiyi CHEN

Dissipation function in turbulent plane Poiseuille and Couette flows
subject to spanwise rotations (185)
Zhenhua XIA, Yipeng SHI, Qingdong CAI, Jie GAI

Thirty years of turbulence study in China (193)
Bohua SUN

Non-equilibrium turbulent phenomena in the flow
over a backward-facing ramp (215)
Le FANG, Hongkai ZHAO, Weidan NI, Jian FANG, Lipeng LU

Neural network as a function approximator and its application
in solving differential equations (237)
Zeyu LIU, Yantao YANG, Qingdong CAI

Effect of glow discharge on hypersonic flat plate boundary layer (249)
Chi LI, Yunchi ZHANG

Revisiting coherent structures in low-speed turbulent boundary layers (261)
Xianyang JIANG

Experimental and numerical study of flow structures of
the second-mode instability (273)
Yiding ZHU

Transition control of Mach 6.5 hypersonic flat plate boundary layer (283)
Yunchi ZHANG, Chi LI

Effects of finite-size neutrally buoyant particles on the turbulent channel flow
at a Reynolds number of 395 (293)
Zhaosheng YU, Chenlin ZHU, Yu WANG, Xueming SHAO

ISSN 0253-4827
CN 31-1650/O1



ISSN 0253-4827



9 770253 482199