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# **LOW REYNOLDS NUMBER AERODYNAMICS AND TRANSITION**

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Edited by **Mustafa Serdar Genç**

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## **Low Reynolds Number Aerodynamics and Transition**

Edited by Mustafa Serdar Genç

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# Contents

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## Preface IX

	<b>Part 1</b>	<b>Low Reynolds Flows</b>	<b>1</b>
Chapter 1	<b>Low Reynolds Number Flows and Transition</b>		<b>3</b>
	M. Serdar Genç, İlyas Karasu, H. Hakan Açıknel and M. Tuğrul Akpolat		
	<b>Part 2</b>	<b>Transition Modelling</b>	<b>29</b>
Chapter 2	<b>Transition Modelling for Turbomachinery Flows</b>		<b>31</b>
	F. R. Menter and R. B. Langtry		
Chapter 3	<b>Prediction of Aerodynamic Characteristics for Elliptic Airfoils in Unmanned Aerial Vehicle Applications</b>	<b>59</b>	
	Varun Chitta, Tej P. Dhakal and D. Keith Walters		
Chapter 4	<b>Transition at Low-Re Numbers for some Airfoils at High Subsonic Mach Numbers</b>	<b>79</b>	
	Ünver Kaynak, Samet Çaka Çakmakçioğlu and Mustafa Serdar Genç		
	<b>Part 3</b>	<b>Flow Control</b>	<b>97</b>
Chapter 5	<b>Modeling the Wake Behind Bluff Bodies for Flow Control at Laminar and Turbulent Reynolds Numbers Using Artificial Neural Networks</b>	<b>99</b>	
	Selin Aradag and Akin Paksoy		
Chapter 6	<b>A Methodology Based on Experimental Investigation of a DBD-Plasma Actuated Cylinder Wake for Flow Control</b>	<b>117</b>	
	Kelly Cohen, Selin Aradag, Stefan Siegel, Jurgen Seidel and Tom McLaughlin		
Chapter 7	<b>Thermal Perturbations in Supersonic Transition</b>	<b>139</b>	
	Hong Yan		

# Preface

This book reports the latest development and trends in the low Re number aerodynamics, transition from laminar to turbulence, unsteady low Reynolds flows, experimental studies, numerical transition modelling, control of low Re number flows, and MAV wing aerodynamics. This book focuses particularly on: (1) a review and brief information study on low Reynolds number flows and transition as an introduction to low Re number aerodynamics (Chapter 1), (2) transition modelling (Chapters 2-4), flow control (Chapters 5-8) and flow over micro air vehicle wings (Chapter 9). The contributors to each chapter are fluid mechanics and aerodynamics scientists and engineers with strong expertise in their respective fields. As a whole, the studies presented here reveal important new directions toward the realization of applications of MAV and wind turbine blades. We hope that this book will be used by scientists and engineers working in the area of fluid mechanics and aerodynamics researchers.

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