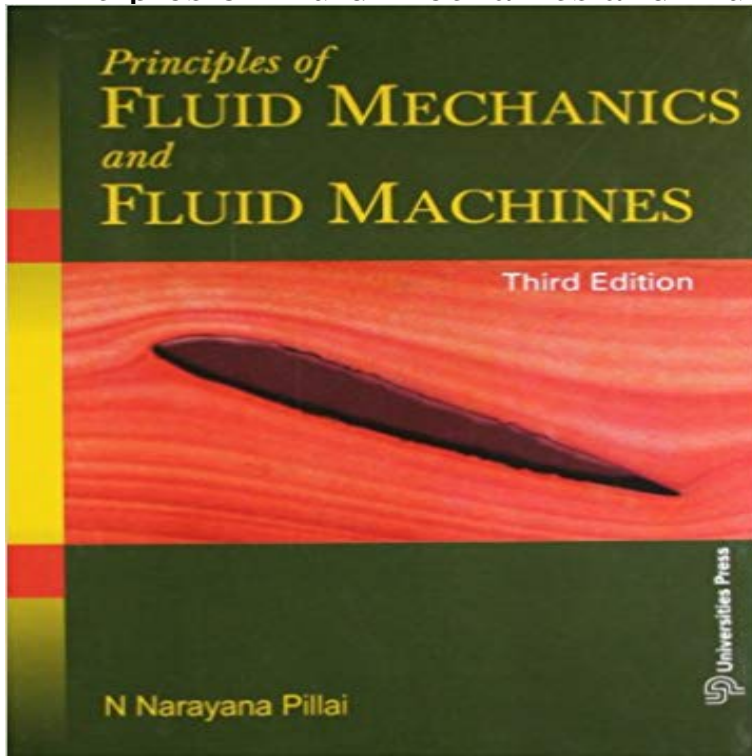


Principles of Fluid Mechanics and Fluid Machines



This book is intended to be used as a textbook for a first course in fluid mechanics. It stresses on principles and takes the students through the various developments in theory and applications. A number of exercises are given at the end of each chapter, all of which have been successfully class-tested by the authors. It will be ideally suited for students taking an undergraduate degree in engineering in all universities in India. Some significant additions have been made to the text in the present edition. The new topics discussed include propagation of errors, the force on a fireman's nozzle, the propulsion of turbojets and rockets, standing wave flume for measurement of discharge in irrigation channels and the characteristics of centrifugal pumps. A number of examples applying the concept of control volume and pressure momentum transport rate equation have been added. Considering the importance of compressible flow, a whole chapter on elements of compressible flow has been added. Contents: Foreword Preface to the third edition Preface to the first edition 1 Introduction 2 Properties of fluids 3 Fluid pressure and its measurements 4 Pressure on immersed surfaces 5 Buoyancy and floatation 6 Relative equilibrium of moving fluids 7 Fluid kinematics 8 Principles of ideal fluid flow 9 Analysis of flow patterns 10 Fluid dynamics 11 Flow measurements 12 Flow through pipes 13 Viscous flow laminar and turbulent flows 14 Dimensional analysis and similitude 15 Boundary layer theory 16 Drag and lift on immersed bodies 17 Flow in open channels 18 Water hammer in pipes 19 Turbo-machines 20 Positive displacement pumps 21 Elements of Compressible Flow References Index

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