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Elements of Fluid Dynamics is intended to be a basic textbook, useful for undergraduate and graduate students in different fields of engineering, as well as in physics and applied mathematics. The main objective of the book is to provide an introduction to fluid dynamics in a simultaneously rigorous and accessible way, and its approach follows the idea that both the generation mechanisms and the main features of the fluid dynamic loads can be satisfactorily understood only after the equations of fluid motion and all their physical and mathematical implications have been thoroughly assimilated. Therefore, the complete equations of motion of a compressible viscous fluid are first derived and their physical and mathematical aspects are thoroughly discussed. Subsequently, the necessity of simplified treatments is highlighted, and a detailed analysis is made of the assumptions and range of applicability of the incompressible flow model, which is then adopted for most of the rest of the book. Furthermore, the role of the generation and dynamics of vorticity on the development of different flows is emphasized, as well as its influence on the characteristics, magnitude and predictability of the fluid dynamic loads acting on moving bodies. The book is divided into two parts which differ in target and method of utilization. The first part contains the fundamentals of fluid dynamics that are essential for any student new to the subject. This part of the book is organized in a strictly sequential way, i.e. each chapter is assumed to be carefully read and studied before the next one is tackled, and its aim is to lead the reader in understanding the origin of the fluid dynamic forces on different types of bodies. The second part of the book is devoted to selected topics that may be of more specific interest to different students. In particular, some theoretical aspects of incompressible flows are first analysed and classical applications of fluid dynamics such as the aerodynamics of airfoils, wings and bluff bodies are then described. The one-dimensional treatment of compressible flows is finally considered, together with its application to the study of the motion in ducts. Sample Chapter(s) Chapter 1: Introduction (133 KB) Request Inspection Copy

This book is a brief introduction to the fundamental concepts of computational fluid dynamics (CFD). It is addressed to beginners, and presents the ABC's or bare essentials of CFD in their simplest and most transparent form. The approach taken is to describe the principal analytical tools required, including truncation-error and stability analyses, followed by the basic elements or building blocks of CFD, which are numerical methods for treating sources, diffusion, convection, and pressure waves. Finally, it is shown how those ingredients may be combined to obtain self-contained numerical methods for solving the full equations of fluid dynamics. The book should be suitable for self-study, as a textbook for CFD short courses, and as a supplement to more comprehensive CFD and fluid dynamics texts.

This book is the result of a careful selection of contributors in the field of CFD. It is divided into three sections according to the purpose and approaches used in the development of the contributions. The first section describes the "high-performance computing" (HPC) tools and their impact on CFD modeling. The second section is dedicated to "CFD models for local and large-scale industrial phenomena." Two types of approaches are basically contained here: one concerns the adaptation from global to local scale, - e.g., the applications of CFD to study the climate changes and the adaptations to local scale. The second approach, very challenging, is the multiscale analysis. The third section is devoted to "CFD in numerical modeling approach for experimental cases." Its chapters emphasize on the numerical approach of the mathematical models associated to few experimental (industrial) cases. Here, the impact and the importance of the mathematical modeling in CFD are focused on. It is expected that the collection of these chapters will enrich the state of the art in the CFD domain and its applications in a lot of fields. This collection proves that CFD is a highly interdisciplinary research area, which lies at the interface of physics, engineering, applied mathematics, and computer science.

Sabiston Textbook of Surgery is your ultimate foundation for confident surgical decision making. Covering the very latest science and data affecting your treatment planning, this esteemed medical reference helps you make the most informed choices so you can ensure the best outcome for every patient. Consult it on the go with online access at expertconsult.com, and get regular updates on timely new findings and advances. Overcome tough challenges, manage unusual situations, and avoid complications with the most trusted advice in your field. Prepare for tests and exams with review questions and answers online. Keep up with the very latest developments concerning abdominal wall reconstruction, tumor immunology and immunotherapy, peripheral vascular disease, regenerative medicine, liver transplantation, kidney and pancreas transplantation, small bowel transplantation, the continually expanding role of minimally invasive and robotic surgery, and many other rapidly evolving areas. Weigh your options by reviewing the most recent outcomes data and references to the most current literature.

LIC - Sabiston Textbook of Surgery

Since the publication of Neurobiology of Cerebrospinal Fluid 1 in 1980, that text has become the definitive reference concerning cerebrospinal fluid (CSF) for both basic scientists and clinicians involved in the investigation of degenerative, convulsive, cerebrovascular, traumatic, immunological, demyelinating, inflammatory, neoplastic, neuroendocrine, and psychiatric disorders. That initial volume began a tradition of detailed topic reviews written by international authorities with first-hand expertise in their respective fields of CSF research. Neurobiology of Cerebrospinal Fluid 2 represents a hefty collection of extensively refer enced and illustrated chapters covering topics not discussed in Vol. 1. More specifically, these chapters contain ample charts of original data, summary charts, and anatomical diagrams. Detailed illustrations of experimental and clinical techniques have been in cluded to facilitate their practical application. Each chapter in this multidisciplinary text has been critically reviewed by two experts in the respective field, and the appropriate revisions have been made. Recently published references and text modifications have been added at the proof stage in an effort to provide the most up-to-date review chapters possible.

In the last ten years the pediatric neurosurgeon has witnessed a real revolution in the diagnosis and treatment of pediatric hydrocephalus, the most frequently encountered condition in everyday clinical practice. The evolution of MRI and the advent of neuroendoscopic surgery have reawakened the interest in the classification, etiology and pathophysiology of hydrocephalus. The book offers an updated overview on the recent progress in this field, and a new approach to hydrocephalus: the reader will find in it a modern and new presentation of an old disease, where genetics, endoscopy, cost-effectiveness analyses and many other aspects of the various therapies are extensively discussed. The volume will be useful not only for neurosurgeons, but for all specialists interested in the various aspects of hydrocephalus: pediatricians, radiologists, endocrinologists, pathologists and geneticists.

This volume is the first to describe all clinically and experimental relevant aspects of primary and secondary brain stem lesions important to clinicians. It contains a detailed description of the computer-tomographical and morphological changes of the cerebral cisterns in acutely and chronically increased intracranial pressure. The prognostic value of clinical parameters of primary and secondary brain stem lesions is demonstrated. The possibilities of assessing the clinical course by computer-aided evaluation are presented. In addition to that, comprehensive view of morphological, radiological and clinical findings, extensive investigation concerning blink reflex (BR) and auditory evoked brain stem potentials (BAEP) supply highly relevant functional aspects of those lesions. The effects of raised intracranial pressure upon BR, BAEP as well as upon cerebral blood flow and focal flow in different brain areas were studied in animal experiments and reveal new and fascinating conclusions. Based on these investigations, a mathematical model following modern concepts of system analysis was developed. The model includes the intracranial system, autoregulation of cerebral flow (cardiovascular components) and the short-time behaviour of arterial blood pressure regulation.

The first of the four volumes introduces approaches to the patient, radiology fundamentals, perioperative evaluation and treatment, and surgical exposures and positioning; and it covers oncology. The second volume covers vascular disease and malformations, and epilepsy; the third, functional neurosurgery, pain, and pediatric issues; and the fourth, the peripheral nerve, radiation therapy and radiosurgery, the spine, and trauma. Basic science, in most cases, is represented in its own chapter in each section, so as to make the rest of the section chapters more clinical in focus.

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