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This is the most comprehensive introductory graduate or advanced undergraduate text in fluid mechanics available. It builds from the fundamentals, often in a very general way, to widespread applications to technology and geophysics. In most areas, an understanding of this book can be followed up by specialized monographs and the research literature. The material added to this new edition will provide insights gathered over 45 years of studying fluid mechanics. Many of these insights, such as universal dimensionless similarity scaling for the laminar boundary layer equations, are available nowhere else. Likewise for the generalized vector field derivatives. Other material, such as the generalized stream function treatment, shows how stream functions may be used in three-dimensional flows. The CFD chapter enables computations of some simple flows and provides entrée to more advanced literature. *New and generalized treatment of similar laminar boundary layers. *Generalized treatment of streamfunctions for three-dimensional flow. *Generalized treatment of vector field derivatives. *Expanded coverage of gas dynamics. *New introduction to computational fluid dynamics. *New generalized treatment of boundary conditions in fluid mechanics. *Expanded treatment of viscous flow with more examples.

This book examines the activities of a broad array of police officers in Ptolemaic Egypt (323–30 BC) and argues that Ptolemaic police officials enjoyed great autonomy, providing assistance to even the lowest levels of society when crimes were committed. Throughout the nearly 300 years of Ptolemaic rule, victims of crime in all areas of the Egyptian countryside called on local police officials to investigate crimes; hold trials; and arrest, question and sometimes even imprison wrongdoers. Drawing on a large body of textual evidence for the cultural, social and economic interactions between state and citizen, John Bauschatz demonstrates that the police system was efficient, effective, and largely independent of central government controls. No other law enforcement organization exhibiting such a degree of autonomy and flexibility appears in extant evidence from the rest of the Greco-Roman world.

Author is a leading theorist in negotiation and decision-making.

Practical and reliable, this reference traces English words back to their Indo-European roots. Each entry features a brief definition, identifies the language of origin, and employs a few illustrative quotations. An extensive appendix includes lists of prefixes, suffixes, Indo-European roots, homonyms and doublets, and the distribution of English-language sources.

A basic introduction to the metric system. Covers: the three classes of SI units & the SI prefixes; units outside the SI; rules & style conventions for printing & using units; rules & style conventions for expressing values of quantities; comments on some quantities & their units; rules & style conventions for spelling unit names; printing & using symbols & numbers in scientific & technical documents; & check list for reviewing manuscripts. Appendix: definitions of SI base units & the radian & Steradian; conversion factors, & comments on the references of the SI for the U.S. Extensive bibliography. Lloyd's Register of British and Foreign Shipping Lloyd's Register of Shipping Climatological Data Alabama Lloyd's Register of British and Foreign Shipping Bonner Jahrbücher

Volume 4 of 7. The Coptic Version of the New Testament in the Southern Dialect otherwise called Sahidic and Thebaic with Critical Apparatus, Literal English Translation, Register of Fragments and Estimate of the Version. Volume IV includes the Epistles of Saint Paul. Reproduction of the 1920 edition.

In most cases, every chemist must deal with solvent effects, whether voluntarily or otherwise. Since its publication, this has been the standard reference on all topics related to solvents and solvent effects in organic chemistry. Christian Reichardt provides reliable information on the subject, allowing chemists to understand and effectively use these phenomena. 3rd updated and enlarged edition of a classic 35% more contents excellent, proven concept includes current developments, such as ionic liquids indispensable in research and industry From the reviews of the second edition: "...This is an immensely useful book, and the source that I would turn to first when seeking virtually any information about solvent effects." —Organometallics

Sportsman's Connection's Western Pennsylvania All-Outdoors Atlas & Field Guide contains maps created at twice the scale of other road atlases, which means double the detail. And while the maps are sure to be the finest quality you have ever used, the thing that makes this book unique is all the additional information. Your favorite outdoor activities including fishing lakes and streams, hunting, camping, hiking and biking, snowmobiling and off-roading, paddling, skiing, golfing and wildlife viewing are covered in great depth with helpful editorial and extensive tables, which are all cross-referenced and indexed to the map pages in a way that's fun and easy to use.

The first IUPAC Manual of Symbols and Terminology for Physicochemical Quantities and Units (the Green Book) of which this is the direct successor, was published in 1969, with the object of 'securing clarity and precision, and wider agreement in the use of symbols, by chemists in different countries, among physicists, chemists and engineers, and by editors of scientific journals'. Subsequent revisions have taken account of many developments in the field, culminating in the major extension and revision represented by the 1988 edition under the simplified title Quantities, Units and Symbols in Physical Chemistry. This 2007, Third Edition, is a further revision of the material which reflects the experience of the contributors with the previous editions. The book has been systematically brought up to date and new sections have been added. It strives to improve the exchange of scientific information among the readers in different disciplines and across different nations. In a rapidly expanding volume of scientific literature where each discipline has a tendency to retreat into its own jargon this book attempts to provide a readable compilation of widely used terms and symbols from many sources together with brief understandable definitions. This is the definitive guide for scientists and organizations working across a multitude of disciplines requiring internationally approved nomenclature.

An introduction to the engineering principles of embedded systems, with a focus on modeling, design, and analysis of cyber-physical systems. The most visible use of computers and software is processing information for human consumption. The vast majority of computers in use, however, are much less visible. They run the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally encode your voice and construct a radio signal to send it from your cell phone to a base station. They command robots on a factory floor, power generation in a power plant, processes in a chemical plant, and traffic lights in a city. These less visible computers are called embedded systems, and the software they run is called embedded software. The principal challenges in designing and analyzing embedded systems stem from their interaction with physical processes. This book takes a cyber-physical approach to embedded systems, introducing the engineering concepts underlying embedded systems as a technology and as a subject of study. The focus is on modeling, design, and analysis of cyber-physical systems, which integrate computation, networking, and physical processes. The second edition offers two new chapters, several new exercises, and other improvements. The book can be used as a textbook at the advanced undergraduate or introductory graduate level and as a

professional reference for practicing engineers and computer scientists. Readers should have some familiarity with machine structures, computer programming, basic discrete mathematics and algorithms, and signals and systems.

For nearly a century, Richard John Cunliffe's *Lexicon of the Homeric Dialect* has served as an invaluable resource for students and scholars of Homer's *Iliad* and *Odyssey*. As both an English-Homeric dictionary and a concordance, the *Lexicon* lists and defines in English all instances of Greek words that appear in the two epics. Now, with the inclusion of Cunliffe's "Homeric Proper and Place Names"—a forty-two-page supplement to the *Lexicon*—this expanded edition will be even more useful to readers of Homer. In his original preface to the supplement, Cunliffe explained that proper and place names had to be excluded from the *Lexicon* "chiefly on the ground of expense." Although the *Lexicon* has enjoyed perennial popularity, scholars have long lamented the absence of "capitalized" name-forms in the *Lexicon*. By consolidating the two works into one handy single-volume format, this expanded edition fills the only gap in Cunliffe's indispensable reference. In his preface to the expanded edition, James H. Dee explains the benefits of uniting the two dictionaries. In addition, Dee provides a brief list of errata and a helpful key to Cunliffe's system of referencing the poems according to Greek letter.

Das erstmals im 19. Jahrhundert untersuchte Lukasgrab südöstlich des Staatsmarktes von Ephesos wurde wegen eines kaiserzeitlichen Reliefs mit der Darstellung eines Zebus samt sekundär eingetieftem Kreuz über dem Buckel des Tieres zunächst als Grabanlage des Evangelisten bezeichnet. Aufgrund weiterer Forschungen wurde schliesslich eine Interpretation als römisches Heroon oder als Tempel favorisiert, der in frühbyzantinischer Zeit zu einer Kirche umfunktioniert worden sein soll. Dieses Bild ist allerdings nach den Untersuchungen der Jahre 1997 bis 2004 grossteils zu revidieren. Bei dem Rundbau handelt es sich vielmehr um eine Brunnenanlage, die im 2. Jahrhundert nach Christus inmitten eines von Säulenhallen eingefassten Marktplatzes errichtet worden ist.

The Definitive, Fully Updated Guide to Separation Process Engineering—Now with a Thorough Introduction to Mass Transfer Analysis Separation Process Engineering, Third Edition, is the most comprehensive, accessible guide available on modern separation processes and the fundamentals of mass transfer. Phillip C. Wankat teaches each key concept through detailed, realistic examples using real data—including up-to-date simulation practice and new spreadsheet-based exercises. Wankat thoroughly covers each of today's leading approaches, including flash, column, and batch distillation; exact calculations and shortcut methods for multicomponent distillation; staged and packed column design; absorption; stripping; and more. In this edition, he also presents the latest design methods for liquid-liquid extraction. This edition contains the most detailed coverage available of membrane separations and of sorption separations (adsorption, chromatography, and ion exchange). Updated with new techniques and references throughout, Separation Process Engineering, Third Edition, also contains more than 300 new homework problems, each tested in the author's Purdue University classes. Coverage includes Modular, up-to-date process simulation examples and homework problems, based on Aspen Plus and easily adaptable to any simulator Extensive new coverage of mass transfer and diffusion, including both Fickian and Maxwell-Stefan approaches Detailed discussions of liquid-liquid extraction, including McCabe-Thiele, triangle and computer simulation analyses; mixer-settler design; Karr columns; and related mass transfer analyses Thorough introductions to adsorption, chromatography, and ion exchange—designed to prepare students for advanced work in these areas Complete coverage of membrane separations, including gas permeation, reverse osmosis, ultrafiltration, pervaporation, and key applications A full chapter on economics and energy conservation in distillation Excel spreadsheets offering additional practice with problems in distillation, diffusion, mass transfer, and membrane separation

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The Hittite language is the earliest preserved member of the Indo-European family of languages. It was written on clay tablets in central Asia Minor over a five hundred year span (ca. 1650-1180 B.C.) which witnessed the rise, the flourish, and the decline of many political powers in the Near East. It is studied today for a wide variety of reasons. Historical linguists seek information in Hittite texts to elucidate the relationships between the various member languages of the Indo-European family, as well as the probable structure of their common parent, Proto-Indo-European. Historians find in Hittite annals, treaties, royal edicts, and political correspondence information of great value in reconstructing the sequence of events on the international scene of mid-second-millennium Western Asia. Anthropologists, mythographers, and students of comparative religion mine the riches of Hittite religious texts: myth, magic rituals to cure ailments, festivals to worship the gods of the empire. Students of the history of law discover ancient precedents for legal procedures which have survived to this day. All of these interested researchers share a dependence upon the written texts. None can penetrate further than our limited understanding of this language allows. [From the Preface, CHD L-N, p. ix].

Astrocytes can be defined as the glia inhabiting the nervous system with the main function in the maintenance of nervous tissue homeostasis. Classified into several types according to their morphological appearance, many of astrocytes form a reticular structure known as astroglial syncytium, owing to their coupling via intercellular channels organized into gap junctions. Not only do astrocytes establish such homocellular contacts, but they also engage in intimate heterocellular interactions with neurons, most notably at synaptic sites. As synaptic structures house the very core of information transfer and processing in the nervous system, astroglial perisynaptic positioning assures that these glial cells can nourish neurons and establish bidirectional communication with them, functions outlined in the concepts of the astrocytic

cradle and multi-partite synapse, respectively. Astrocytes possess a rich assortment of ligand receptors, ion and water channels, and ion and ligand transporters, which collectively contribute to astrocytic control of homeostasis and excitability. Astroglia control glutamate and adenosine homeostasis to exert modulatory actions affecting the real-time operation of synapses. Fluctuations of intracellular calcium can lead to the release of various chemical transmitters from astrocytes through a process termed gliotransmission. Sodium fluctuations are closely associated to those of calcium with both dynamic events interfacing signaling and metabolism. Astrocytes appear fully integrated into the brain cellular circuitry, being an indispensable part of neural networks.

One of a series of three resource guides concerned with communication, control, and computer access for the disabled or the elderly, the book focuses on hardware and software. The guide's 13 chapters each cover products with the same primary function. Cross reference indexes allow access to listings of products by function, input/output feature, and computer model. Switches are listed separately by input/output features. Typically provided for each product are usually an illustration, the product name, vendor, size, weight, power source, connector type, cost, and a description. Part I, "Computer Adaptations," presents the following types of items: modifications for standard keyboards; alternate inputs usable with all software; input devices usable with only some software; input adapters for computers; alternate display systems usable with all software; Braille printers and tactile display components; speech synthesizers; and other software and hardware adaptations. Part II, "Application Software for Special Ed and Rehab," includes software for administration and management; assessment; education, training, and therapy; recreation; and personal tools or aids. Appendixes include a list of additional sources of information, a glossary, addresses of manufacturers listed with their products, and an alphabetical listing of all products in the 3-book series. (DB)

"Novaeivm des im Auftrag des rheinischen Provinzialverbandes vom Bonner Provinzialmuseum 1887-1900 ausgegrabene Legionslager. Text": v.111/112 and Atlas of XXXVI pl.

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