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Fundamentals of Heat and Mass Transfer
Frank P. Incropera
1985
An updated and refined edition of one of the standard works on heat transfer. The Third Edition offers better development of the physical principles underlying heat transfer, improved treatment of numerical methods and heat transfer with phase change as well as consideration of a broader range of technically important problems. The scope of applications has been expanded and there are nearly 300 new problems.

Die Entscheidung
Naomi Klein
2015-03-05
***JETZT ODER NICHTS – der provokante Gesellschaftsentwurf der international bekannten Bestsellerautorin Naomi Klein
(»NoLogo« und »Die Schock-Strategie«)***Vergessen Sie alles, was Sie über den Klimawandel zu wissen meinten: Es geht nicht nur um CO2-Emissionen, es geht um den Kapitalismus!Die weltbekannte Aktivistin Naomi Klein weckt uns aus der kollektiven Ohnmacht angesichts der Klimakatastrophe. In einer packenden Vision zeigt sie, dass wir uns dieser existentiellen Herausforderung stellen können. Wir müssen unser Wirtschaftssystem des Immer-mehr aufgeben und etwas radikal Neues wagen. Denn überall auf der Welt gibt es bereits überraschende und inspirierende Alternativen.Brillant gedacht, fundiert recherchiert, hoffnungsvoll und spannend. Ein Buch, das aufrüttelt und Lust auf die Zukunft macht."Die Klimakatastrophe kann die Welt zum Besseren ändern."— Naomi Klein"Naomi Klein befasst sich in ihrer unbestechlichen, leidenschaftlichen und akribischen Art mit den größten und drängendsten Fragen unserer Zeit. Ihr Werk hat die Spielregeln der Debatte verändert. Für mich zählt sie zu den inspirierendsten politischen Vordenkern der Welt von heute."— Arundhati Roy "Zweifellos eines der wichtigsten Bücher des Jahrzehnts."— Amitav Ghosh"Naomi Klein ist ein Genie. Sie hat für das Feld der Politik das geleistet, was Jared Diamond für die Erforschung der Geschichte des Menschen getan hat. Meisterhaft verwebt sie politische, ökonomische und historische Fakten und verdichtet sie zu einfachen und mächtigen Wahrheiten mit universeller Anwendbarkeit."— Robert F. Kennedy, Jr."Naomi Kleins klare Sprache und ihr Scharfsinn, machen Lust auf Veränderung und verdeutlichen die Notwendigkeit zum sofortigen Handeln."— Charlizè Theron "Eine mitreißende Pflichtlektüre!"— Michael E. Mann, Direktor des Earth System Science Center an der Pennsylvania State University

Network Simulation
Richard M. Fujimoto
2006-12-01
A detailed introduction to the design, implementation, and use of network simulation tools is presented. The requirements and issues faced in the design of simulators for wired and wireless networks are discussed. Abstractions such as packet- and fluid-level network models are covered. Several existing simulations are given as examples, with details and rationales regarding design decisions presented. Issues regarding performance and scalability are discussed in detail, describing how one can utilize distributed simulation methods to increase the scale and performance of a simulation environment. Finally, a case study of two simulation tools is presented that have been developed using distributed simulation techniques. This text is essential to any student, researcher, or network architect desiring a detailed understanding of how network simulation tools are designed, implemented, and used.

AIDS, the Biological Basis
I. Edward Alcamo
1993

Pipeline Design & Construction
Mo Mohitpour
2007
This third edition of this highly successful volume is fully updated and includes new information on buoyancy control, Trenchless Crossing methods, as well as on Compressor Fuel Calculations and Optimization, Hydrotesting and LPG Pipelining. This book offers straightforward, practical techniques for pipeline design and construction, making it an ideal professional reference, training tool, or comprehensive text. The authors present the various elements that make up a single-phase liquid and gas pipeline system, including how to design, construct, commission, and assess pipelines and related facilities. They discuss gas and liquid transmission, compression, pumps, protection and integrity, procurement services, and the management of pipeline projects. More complex specialty fluids are also covered, including CO2, H2, slurry and multi-products. (Publisher).
Comparative Cardiovascular Dynamics of Mammals
John K-J Li
1995-12-05
Comparative Cardiovascular Dynamics of Mammals offers never-before-published data on the structure and function of the circulatory systems of the different mammalian species. This text explores classic allometry, dimensional analysis, and modern hemodynamics to establish similarity principles that provide a necessary and important step in understanding the natural common design and functional features of the cardiovascular systems of different mammals. Fluid and blood vessel mechanics, pulse transmission characteristics, cardiac energetics and mechanics, as well as heart-arterial system interaction are included in this essential reference. The sensitivity of parameters and similarity of principles in the diagnosis of cardiovascular diseases are also addressed. This book also describes the natural processes involved in the functional development of the mammalian cardiovascular system. By using modern methods to present recent findings on the similarities and differences of the mammalian cardiovascular system, the author provides an easily understood approach to this dynamic field of study.

Lemon-Aid Used Cars and Trucks 2011-2012
Phil Edmonston
2011-04-25
As Toyota skids into an ocean of problems and uncertainty continues in the U.S. automotive industry, Lemon-Aid Used Cars and Trucks 20112012 shows buyers how to pick the cheapest and most reliable vehicles from the past 30 years. Lemon-Aid guides are unlike any other car and truck books on the market. Phil Edmonston, Canada’s automotive Dr. Phil for 40 years, pulls no punches. Like five books in one, Lemon-Aid Used Cars and Trucks is an expos of car scams and gas consumption lies; a do-it-yourself service manual; an independent guide that covers beaters, lemons, and collectibles; an archive of secret service bulletins granting free repairs; and a legal primer that even lawyers cant beat! Phil delivers the goods on free fixes for Chrysler, Ford, and GM engine, transmission, brake, and paint defects; lets you know about Corvette and Mustang tops that fly off; gives the lowdown on Honda, Hyundai, and Toyota engines and transmissions; and provides the latest information on computer module glitches.

Kinetic Theory
Richard L. Liboff
1998-02-27
This updated and expanded edition offers a collective description of all aspects of kinetic theory
Kinetic Theory: Classical, Quantum, and Relativistic Descriptions, Second Edition goes beyond the scope of other works in the field with a significantly broader array of applications. This superior reference addresses a wide range of disciplines, including aerospace, mechanical, and chemical engineering; solid state and laser physics; and controlled and astrophysical thermonuclear fusion. Topics covered include:
* Entirely new material on kinetic properties of metals and amorphous media.
* Exposition and analysis of the Liouville equation.
* The Boltzmann equation, fluid dynamics, and irreversibility.
* Kinetic equations with applications to plasmas, neutral fluids, and shock waves.
* Elements of quantum kinetic theory and the many-body Green’s function.
* Relativistic kinetic theory–covariant Liouville equation
* List of classical and quantum hierarchies of kinetic equations
Support materials include problem sets at the end of each chapter, many of which provide self-contained descriptions of closely allied topics. Numerous appendices supply vector formulas and tensor notation, properties of special functions, physical constants, references, and a historical time chart.
Kinetic Theory, Second Edition is an indispensable resource for physicists involved in plasma physics, condensed matter, and statistical mechanics; electrical engineers working with laser and solid state devices; and researchers in industry and academia. It is also an excellent text for graduate courses in these and other disciplines.

Die gesellschaftliche Konstruktion der Wirklichkeit
Peter L. Berger
1977-01

Demokratie und Erziehung
John Dewey
1993

The Neurobiological Basis of Memory and Behavior
Hinrich Rahmann
1992-05-14
Of all the areas of biological science, there is, perhaps, none that has experienced in recent decades so great an increase in findings as neurobiology, the discipline that concerns memory in all of its myriad aspects. The notion of exploring memory, that capacity to store and recall individual experience, has received attention increasingly in our society. Of course, animals can exhibit astounding powers of memory, but memory is of paramount importance to human beings due to the significant role it plays in the transmission of our cultural traditions. It is tradition, after all, that ensures the passing on of qualities established by lineage, a continuous link from generation to generation, between past and present. And it is tradition that inspires bodies of thought (knowledge and customs, for example) to be handed down by a multiplicity of information bearing devices (i. e., word, writing, picture, electronic data carriers). The objective of this book is to inform the reader in one clear volume of the groundwork which has been established in memory research from the diverse disciplines of neurobiology. It is intended, primarily, for students of medicine, zoology, biology, psychology and psychiatry, but will certainly prove to be a valuable resource to others with a healthy interest in the area.

Hydraulic Fluids
Mariappa Radhakrishnan
2003
Hydraulic fluids are the most widely consumed of all industrial lubricants. This book covers a broad range of issues that are important to engineers concerned with the selection, application, and maintenance of hydraulic fluids used in industrial machinery. The author provides a comprehensive and ready reference to various hydraulic fluid properties, such as biodegradability and fire resistance, as well as relevant hydraulic fluid test procedures. Also discussed are re-refining, reclamation, and disposal issues pertaining to used hydraulic fluids. This book is unique in that it brings together material that is currently not available from a single source, in a concise and useful format. A handy and useful guide for younger as well as more experienced practicing hydraulics and plant engineers, in addition to engineers in fluid power transmission and the mechanical engineering industries.
Lubrication Technology for Advanced Engines
Stephen M. Hsu
1993
Includes: Emission control: Fuel efficiency, alternative fuels; Lightweight and new materials; Advanced engine development; Heavy duty diesel engines; Lubricant/Additive industries.

Moderne Physik
Paul A. Tipler
2009-11-11
Endlich liegt die anschauliche und fundierte Einführung zur Modernen Physik von Paul A. Tipler und Ralph A. Llewellyn in der deutschen Übersetzung vor. Eine umfassende Einführung in die Relativitätstheorie, die Quantenmechanik und die statistische Physik wird im ersten Teil des Buches gegeben. Die wichtigsten Arbeitsgebiete der modernen Physik - Festkörperphysik, Kern- und Teilchenphysik sowie die Kosmologie und Astrophysik - werden in der zweiten Hälfte des Buches behandelt. Zu weiteren zahlreichen Spezialgebieten gibt es Ergänzungen im Internet beim Verlag der amerikanischen Originalausgabe, die eine Vertiefung des Stoffes ermöglichen. Mit ca. 700 Übungsaufgaben eignet sich das Buch hervorragend zum Selbststudium sowie zur Begleitung einer entsprechenden Vorlesung. Die Übersetzung des Werkes übernahm Dr. Anna Schleitzer. Die Bearbeitung und Anpassung an Anforderungen deutscher Hochschulen wurde von Prof. Dr. G. Czycholl, Prof. Dr. W. Dreybrodt, Prof. Dr. C. Noack und Prof. Dr. U. Strohschusch durchgeführt. Dieses Team gewährleistet auch für die deutsche Fassung die wissenschaftliche Exaktheit und Stringenz des Originals.
Sound and Structural Vibration
Frank Fahy
2007
The first edition of *Sound and Structural Vibration* was written in the early 1980s. Since then, two major developments have taken place in the field of vibroacoustics. Powerful computational methods and procedures for the numerical analysis of structural vibration, acoustical fields and acoustical interactions between fluids and structures have been developed and these are now universally employed by researchers, consultants and industrial organisations. Advances in signal processing systems and algorithms, in transducers, and in structural materials and forms of construction, have facilitated the development of practical means of applying active and adaptive control systems to structures for the purposes of reducing or modifying structural vibration and the associated sound radiation and transmission. In this greatly expanded and extensively revised edition, the authors have retained most of the analytically based material that forms the pedagogical content of the first edition, and have expanded it to present the theoretical foundations of modern numerical analysis. Application of the latter is illustrated by examples that have been chosen to complement the analytical approaches to solving fairly simple problems of sound radiation, transmission and fluid-structural coupling that are presented in the first edition. The number of examples of experimental data that relate to the theoretical content, and illustrate important features of vibroacoustic interaction, has been augmented by the inclusion of a selection from the vast amount of material published during the past twenty five years. The final chapter on the active control of sound and vibration has no precursor in the first edition.
* Covers theoretical approaches to modeling and analysis
* Highly applicable to challenges in industry and academia
* For engineering students to use throughout their career

Pursuing History
Ralph Hanna
1996
This volume argues through a series of selected local studies, for the importance of "textual criticism" as a fundamental act of historical interpretation and recovery, pointing out the need for attention to the physical bearers of our knowledge of the English Middle Ages, the books themselves, and the ignored and alienating features of manuscript culture. The book begins with three essays that seek to problematize medieval book

production, to show the procedure as more a fluid and emergent than a foreplanned process. The following two essays provide theoretical statements about the textual uses of manuscripts.

Protein Bioseparation Using Ultrafiltration
Raja Ghosh
2003-01-01
Ultrafiltration (UF) is a pressure-driven separation process in which membranes are used for a broad variety of applications, ranging from the processing of biological macromolecules to wastewater treatment. It has significant advantages over competing separation technologies. Food and biotechnological applications of UF account for nearly 40 percent of the current total usage. In the case of high value therapeutic protein and DNA products, the separation and purification costs can be as high as 80 percent of the total cost of production. Therefore, it makes economic sense to develop cost-effective and scaleable purification processes for such products. UF is used for protein concentration, protein desalting and protein fractionation (such as protein-protein separation). Concentration and desalting processes are technologically less demanding and have been widely used in the bioprocess industry for quite some time. Protein fractionation, on the other hand, is a challenging proposition and is definitely a more recent development. This text focuses primarily on protein fractionation.

Automotive News
2008

Die Machiavellis der Wissenschaft
Naomi Oreskes
2014-09-29
Ein ganz realer Thriller: Wie skrupellose Lobbyisten seriöse Forscher diffamierten und gezielt Falschinformationen in lancierten Medienkampagnen global verbreiteten. Der Plot ist hollywoodreif, die Geschichte so skandalträchtig wie besturzend
Eine Handvoll Forscher leugnet, manipuliert und diskreditiert anerkannte wissenschaftliche Tatsachen wie den Klimawandel oder den Zusammenhang zwischen dem Rauchen und gesundheitlichen Risiken. Doch Die Machiavellis der Wissenschaft (im Original Merchants of Doubt) ist kein fiktiver Roman, sondern berichtet von der Realität. In den USA sorgte das Buch von Naomi Oreskes und Erik M. Conway für Furore und wurde zum Bestseller. Kein Wunder, die Geschichte, die sie erzählen, ist schließlich unglaublich - es ist die Geschichte über den Kampf gegen Fakten und über den Handel mit dem Zweifel, über die Manipulation der Medien und die Diffamierung Einzelner. Und sie geht uns alle an. Schließlich lehnten die USA als einzige Industrienation die Ratifizierung des Kyoto-Protokolls ab und verhinderten so wichtige Schritte des Klimaschutzes. Ein Lehrstück über die Macht der Industrielobby und ihre Handlanger aus Politik und Wissenschaft und ein Lehrstück darüber, wie erschreckend einfach es möglich ist, mit unlauteren Absichten selbst seriöse Medien zu beeinflussen und mit nachweislich falschen Informationen zu >füttern

Das Zeitalter des Überwachungskapitalismus
Shoshana Zuboff
2018-10-04
Gegen den Big-Other-Kapitalismus ist Big Brother harmlos. Die Menschheit steht am Scheideweg, sagt die Harvard-Ökonomin Shoshana Zuboff. Bekommt die Politik die wachsende Macht der High-Tech-Giganten in den Griff? Oder überlassen wir uns der verborgenen Logik des Überwachungskapitalismus? Wie reagieren wir auf die neuen Methoden der Verhaltensauswertung und -manipulation, die unsere Autonomie bedrohen? Akzeptieren wir die neuen Formen sozialer Ungleichheit? Ist Widerstand ohnehin zwecklos? Zuboff bewertet die soziale, politische, ökonomische und technologische Bedeutung der großen Veränderung, die wir erleben. Sie zeichnet ein unmissverständliches Bild der neuen Märkte, auf denen Menschen nur noch Quelle eines kostenlosen Rohstoffs sind - Lieferanten von Verhaltensdaten. Noch haben wir es in der Hand, wie das nächste Kapitel des Kapitalismus aussehen wird. Meistern wir das Digitale oder sind wir seine Sklaven? Es ist unsere Entscheidung! Zuboffs Buch liefert eine neue Erzählung des Kapitalismus. An ihrer Deutung kommen kritische Geister nicht vorbei.

Mitt liv. Minner, drammer, tanker
Carl Gustav Jung
1975

Flüchtige Moderne
Zygmunt Bauman
2003

Die Geburt aus ethnomedizinischer Sicht
Wulf Schiefenhövel
2013-03-08

Engin Econs of Alt Energy Sources
K. Denno
1990-10-05

Die magischen Kanäle
Marshall McLuhan
1992
Museum und Medien - Museumskommunikation - Kommunikationstheorie - Medientheorie - Museum und Öffentlichkeit.

Mechanics of Underwater Noise
Donald Ross
1976
Mechanics of Underwater Noise elucidates the basic mechanisms by which noise is generated, transmitted by structures and radiated into the sea. Organized into 10 chapters, this book begins with a description of noise, decibels and levels, significance of spectra, and passive sonar equation. Subsequent chapters discuss sound waves in liquids; acoustic radiation fundamentals; wind-generated ocean ambient noise; vibration isolation and structural damping; and radiation by plate flexural vibrations. Other chapters address cavitation, propeller cavitation noise, radiation by fluctuating-force (dipo ...

Trends in Automotive Research
Shahrum Abdullah
2012-04-20
This special issue of Trends in Automotive Research contains papers contributed to the Regional Conference on Automotive Research (ReCAR) , held on the 14 and 15th December, 2011, in Kuala Lumpur, Malaysia. The conference was organised by the Centre for Automotive Research (CAR), Faculty of Engineering and the Built Environment, Universiti Kebangsaan Malaysia. Volume is indexed by Thomson Reuters CPCI-S (WoS).

Natural Gas, Basic Science and Technology
A. Melvin
1988
Natural Gas: Basic Science and Technology concentrates on aspects of gas industry operations which have a basis in physical science. Such aspects are surprisingly wide-ranging and, even in the relatively selective approach adopted in this book, areas covered include the sources and origins of natural gas; the physics of seismic exploration; the thermodynamics of gas and liquid systems; the development of instrumentation for measurement of high pressure flows and of calorific value; and the physics and chemistry of combustion processes relevant to utilization of natural gas. The aim is to give the physical scientist an appreciation of the application of physical techniques over the whole range of natural gas operations from discovery of utilization.

Acoustics of Layered Media
I Leonid Maksimovich Brekhovskikh
1990

Energy Supply and Pipeline Transportation
Mo Mohitpour
2008
"This timely book focuses on the economic and global issues pertaining to delivery of energy resources, particularly fossil fuels such as oil, gas, and coal. The author provides a wealth of data and graphical material based on his many years of research in the energy supply and transportation field. The book covers four major topics: Energy Sources and Supplies, Market Demand by Region, Energy Transportation Modes Issues, and Pipeline Transportation."-BOOK JACKET.

Inhomogeneous Waves in Solids and Fluids
Giacomo Caviglia
1992
The book may be viewed as an introduction to time-harmonic waves in dissipative bodies, notably viscoelastic solids and fluids. The inhomogeneity of the waves, which is due to the fact that planes of constant phase are not parallel to planes of constant amplitude, is shown to be strictly related to the dissipativity of the medium. A preliminary analysis is performed on the propagation of inhomogeneous waves in unbounded media and of reflection and refraction at plane interfaces. Then emphasis is given to those features that are of significance for applications. In essence, they regard surface waves, scattering by (curved) obstacles, wave propagation in layered heterogeneous media, and ray methods. The pertinent mathematical techniques are discussed so as to make the book reasonably self-contained.

Ägyptisches Totenbuch
1998

Kulturerbe und Denkmalpflege transkulturell
Michael S. Falser
2014-06-30
Seit Ende des europäischen Kolonialprojekts und mit den aktuellen Auswirkungen der Globalisierung ist die eurozentrische und nationalstaatlich orientierte Konzeption von »Kulturerbe« in eine konfliktgeladene Schiefelage geraten, die auch die institutionalisierte Denkmalpflege vor neue Herausforderungen stellt. Dieser Band stellt mit Fallbeispielen aus aller Welt die kulturwissenschaftliche Denkfigur der »Transkulturalität« vor, mit der sich neue Zugangsformen zu Kulturerbe ergeben: mit einer Wertschätzung grenzüberschreitender Kontaktzonen, flüchtig-bildhafter Erscheinungsformen, hybrid-ephemerer Materialität und heterogener Identitätskonstruktionen.
Broadband Integrated Networks
Mischa Schwartz
1996
Concentrates on quantitative methods such as modelling and performance analysis
Solar Technologies for Buildings
Ursula Eicker
2003-07-18
* A complete overview of solar technologies relevant to the built environment, including solar thermal energy for heating and cooling, passive solar energy for daylighting and heating supply, and photovoltaics for electricity production
* Provides practical examples and calculations to enable component and system simulation e.g. Calculation of U-values, I-V curve parameters and radiance distribution modelling
* Discusses the new trends in thermal energy use, including the architectural integration of collector systems, integrated ventilation photovoltaics facades and solar powered absorption cooling systems
* Coverage of cutting-edge applications such as active and passive cooling techniques and results from ongoing research projects

From Neuron to Brain
Stephen W. Kuffler
1976

High-performance Communication Networks
Jean Walrand
2000
Rapid advances in networking technology have promoted a fully revised second edition of this successful introduction to communication networks.

A Heat Transfer Textbook
John H. Lienhard
1987

Reinventing Organizations
Frederic Laloux
2015-05-22
Bahnbrechend. Inspirierend. Eines der faszinierendsten Bücher zur Organisationsentwicklung des letzten Jahrzehnts. Dies ist ein sehr wichtiges Buch, bedeutsam in vielerlei Hinsicht: Sowohl angesichts der bahnbrechenden Forschungsergebnisse, Einsichten, Ratschläge und Empfehlungen, die es enthält, als auch aufgrund der genauso wichtigen Fragen und Herausforderungen, auf die es hinweist.“ Ken Wilber aus dem Nachwort „Die programmatische Aufforderung ‚Reinventing Organizations‘ mündet in einem Organisationsmodell, das Strukturen wie Praktiken nach neuartigen, evolutionär-integralen Prinzipien ausrichtet. Im Ergebnis steht die Erkenntnis, dass das Leben und Arbeiten in Organisationen, ebenso wie deren Leistungsbeiträge für die Gesellschaft, radikal zum Positiven verändert werden können. Aber hierzu muss nicht zuletzt die Führung eine fortgeschrittene Entwicklungsebene erreichen.“ Prof. Dr. Jürgen Weibler, Autor des Standardwerkes „Personalführung“ „Das Buch gibt Hoffnung und ganz konkrete Hilfe zur Lösung der Probleme, die wir an der Schwelle von der Postmoderne zu einem neuen Zeitalter erleben, in denen die traditionellen oder modernen Organisationsformen den Anforderungen und Bedürfnissen der Menschen nicht mehr gerecht werden.“ Eine Leserin auf Amazon.com
Frederic Laloux hat mit Reinventing Organizations das Grundlagenbuch für die integrale Organisationsentwicklung verfasst. Die Breite sowie Tiefe seiner Analyse und Beschreibung – ganzheitlich, selbstorganisierend und sinnerfüllend operierender Unternehmen – ist einzigartig. Das erste Kapitel des Buches gibt einen Überblick über die historische Entwicklung von Organisationsparadigmen, bevor im zweiten Kapitel Strukturen, die Praxis und die Kultur von Organisationen, die ein erfüllendes und selbstbestimmtes Handeln der Menschen ermöglichen, anhand von ausgewählten Beispielen vorgestellt werden. Auf die Bedingungen, Hindernisse sowie Herausforderungen bei der Entwicklung dieser evolutionären Organisationen wird in Kapitel 3 eingegangen. Hier entwirft Frederic Laloux einen Leitfaden für den Weg hin zu einer ganzheitlich orientierten und sinnstiftenden Organisation. Frederic Laloux ist auch aufgrund dieses Buches ein mittlerweile gefragter Berater und Coach für Führungskräfte, die nach fundamental neuen Wegen der Organisation eines Unternehmens suchen. Er war Associate Partner bei McKinsey & Company und hält einen MBA vom INSEAD.

Natural Gas Hydrates
John J. Carroll
2003
This is the most exhaustive study to date on natural gas hydrates. In spite of their importance, hydrates are misunderstood, and misconceptions abound. This book provides an accurate review of what hydrates are and under what conditions they will form, and it provides the engineer with the methods to predict the occurrences of hydrates. The petroleum industry spends millions every year to combat the formation of hydrates, the solid, crystalline compounds that form from water and small molecules, damaging equipment and plugging transmission lines. Understanding how, when, and where they form and using this knowledge to apply remedies in practical applications are crucial.
* The most comprehensive study of natural gas hydrates
* A manual for the engineer or textbook for the student
* Contains cutting-edge solutions to natural gas hydrate problems