   1 v. (various pagings): ill., maps.- (McGraw-Hill handbooks)
   Includes bibliographical references and index.

Subject:
   1. Petroleum chemicals -- Handbooks, manuals.

665.538 Ha
Acc. No: 4152

Book Description:
This book provides in-depth process detail for commercial evaluation and covers plastics and polymers such as ethylene and polyethylene; propylene; ethylbenzene, styrene, and polystyrenes; vinyl chloride and polyvinyl chloride; and many others. This handbook answers questions on yields, unit operations, chemical and physical values, economics, and much more.

   240 p.: ill.

Subject:
   1. Nanotechnology -- Handbooks, manuals.

620.5 Br
Acc. No: 4162
374 p.: ill..- (International series on developments in heat transfer,1369-7331; v. 13)
Includes bibliographical references.

Subjects:
536.2 He
Acc. No: 4130

Book Description:
Over the last 20 years, micro/nanoscale flow and heat transfer have been a most active area of interdisciplinary research, involving scientists from various specialities including engineering, physics, chemistry and materials science.
Presenting state-of-the-art knowledge in heat transfer and fluid flow in micro and nanoscale structures, this book provides invaluable information for both graduate researchers and R&D engineers in industry and consultancy. All of the chapters are invited contributions from some of the most prominent scientists in the field and follow a unified outline and presentation to aid accessibility.

vii, 522 p.: col. ill., maps
Includes index.

Subjects:
1. Petroleum industry and trade. 2. Petroleum industry and trade -- Directories.
338.2728 In
Acc. No: 4137
    vii, 484 p.: col. ill., maps
    Includes index.

Subjects:
    1. Petroleum industry and trade. 2. Petroleum industry and trade -- Directories.

338.2728 In
Acc. No: 4119

    229 p.: ill.
    Includes bibliographical references.

Subjects:

541.395 Na
Acc. No: 4103
xxv, 210 p.- (Artech House nanotechnology library)
Includes bibliographical references (p. 197-204) and index.

Subject:
1. Nanotechnology.

620.5 Ga
Acc. No: 4078

Book Description:
Nanotechnology applications and markets is the first market analysis of this burgeoning area that separates commercial reality from hype and gives professionals the tools they need to forecast nanotech's impact on any company. This insightful book spotlights the most viable R&D now taking root, which nano-enabled products will likely emerge in what industries first, and what timeframes to expect before market rollout. This indispensable resource provides professionals with:
- A rich understanding of technical, business, and legal essentials;
- A solid framework for assessing commercial potential without either overheadted expectations or overcautious pessimism;
- Insight into the best nanotech-driven opportunities arising in the computer/electronics, medical/biotech and energy industries from nano-engineered microchips and fuel cells to nano-enabled drug discovery and delivery;
- Details on advances taking place in such diverse industries as textiles, specialty chemicals, automotive, Aerospace, agriculture, and building materials;
- An "impact assessment audit" that reveals how nanotechnology may not only change a company's products, R&D and production processes, but also create new business opportunities and threats;
- Extensive resource lists for further research in this up-and-coming sector.
vi, 328 p.: ill.  
Includes index.

Subject:

1. Petroleum chemicals.

665.538 Na  
Acc. No: 4163

7 vol. in 8 vol.: ill.(chiefly color)  
Includes bibliographies and indexes.


Subjects:

1. Petroleum engineering -- Handbooks, manuals, etc. 2. Handbooks, manuals, etc.

622.338 Pe  
Acc. No: 4138, 4139, 4140, 4141, 4142, 4143, 4144, 4145
xxvi, 289 p.: ill.
Includes index.

Subjects:

665.5 Co
Acc. No: 4134

Book Description:
Every from upstream to downstream is covered in this nontechnical overview of the petroleum industry. Organized in a natural chronology, the text begins with the geology and origins of oil and gas formation and moves through the techniques used to find, drill, and produce oil. The author then moves the reader through clear explanations of downstream issues including storage, transportation, and marketing as well as refining and petrochemicals. Special attention is given to the differences between onshore and offshore processes.

xxv, 310 p.: ill.- (PennWell nontechnical series)
Includes index.

Subjects:
1. Petroleum -- Refining. 2. Refining.
Book Description:

William Leffler's Petroleum refining in nontechnical language, 3rd Edition was designed to give the reader an overview of key refining topics by using relevant analogies, easy-to-understand graphs, formulas, and illustrations. It is ideal for professionals in finance, marketing and any other professionals operating in other disciplines. Each chapter was carefully written in nontechnical language to give the reader a basic understanding of the refining industry. For further reinforcement of the material, Leffler provides exercises at the end of each chapter complete with answers. New to this edition is information on important changes in the way petroleum is transformed from raw materials into finished products and a comprehensive discussion on what sets the prices of crude oils and oil products. Also new is extensive material on the impact of environmental regulation, especially on making gas online. Use this book for self-study, as a classroom textbook, or keep it handy as a quick reference.

Recently retired, William Leffler has nearly 40 years of experience in the petroleum industry. Most recently he was lead strategist for Shell UK.
xv, 275 p.: ill.
Includes bibliographical references and index.

Subjects:

665.5 Kh
Acc. No: 4128

Book Description:
Written by three of the world's most renowned petroleum and environmental engineers, Probability in Petroleum and Environmental Engineering is the first book to offer the practicing engineer and environmental and environmental management. Some of the benefits to be found in this handy and valuable reference:

• MORE EFFICIENT OIL & GAS PRODUCTION for the petroleum engineer and petroleum geologist
• MORE ACCURATE FORECASTING for the environmental engineers
• REAL WORLD EXAMPLES for the engineering student
• VALUABLE NEW INFORMATION not available anywhere else.

In this book, the authors combine a rigorous, yet easy to understand, approach to probability and how it is applied to petroleum and environmental engineering to solve multiple problems that the engineer or geologist faces every day. Useful in the prediction of everything from crude oil composition, pore size distribution in reservoir rocks, groundwater contamination, water quality monitoring, and even air quality forecasting, this approach provides engineers and students alike with a convenient guide to many real-world applications for the rules presented in addition to the theoretical issues in the use of probabilistic equations and scenarios.
y.: ill.
"... power for land, sea and air."--cover.
Includes bibliographical references and author indexes.

Subjects:

621.433 As
Acc. No: 4079

xxii, 113 p.
Includes bibliographical references (p. 102) and index.
CONTENTS: Benchmarking data -- Routine maintenance -- Turnaround maintenance -- Reliability -- Metrics -- Frontline supervision.

Subject:
1. Total productive maintenance.

658.202 Ke
Acc. No: 4135
315 p.: ill.

Subjects:
1. Nanostructured materials -- Toxicology. 2. Toxicology.

615.9 Ny
Acc. No: 4116

479 p.

Subject:
1. Petroleum engineering -- Dictionaries.

665.503 La
Acc. No: 4118

Book Description:

Petrochemical industry was incepted around 70 years ago with the production of isopropylacohol from propylene. The word Petrochemical describes the chemicals obtained from Petroleum Hydrocarbons and Natural gas directly or indirectly. The production of Petrochemicals is one of the dominant industries of developed countries and a driving force and future goal for developing countries. With the advent of catalytic reforming, aromatic
hydrocarbons have become available in large quantities from stable source, namely crude oil and natural gas. The aim of this new Dictionary of Petrochemical Engineering is to facilitate communication between those contributing, directly or indirectly, to the development of Petrochemicals: students, engineers, equipment manufactures, oil companies and last but not the least producing and consuming countries. The approach is descriptive. The editor has examined numerous reliable scientific and technical documents and provides the reader with the actual terms and expressions he has found. This dictionary includes 4500+ terms. The editor hopes that this dictionary will fill the gap in the Petrochemical Sphere.


Subjects:
  1. Metal catalysts. 2. Catalysis. 3. Catalyst supports.

541.395 Su
Acc. No: 4100

Book Description:

With contributions from experts in supported metal catalysis, from both the industry and academia, this book presents the recent developments in characterization and application of supported metals in heterogeneous catalysis. In addition to a thorough and updated coverage of the traditional aspects of heterogeneous catalysis such as preparation, characterization and use in well-established technologies such as Naphtha reforming, the book also includes emerging areas where supported metal catalysis will make significant contributions in future developments, such as hydrogen production and fine chemicals synthesis.

Subjects:
1. Thermodynamics. 2. Chemical engineering. 3. Thermodynamics. 
660.2969 Na
Acc. No: 4117


Subjects:
1. Sewage disposal plants -- Upgrading. 2. Upgrading.
628.3 Up
Acc. No: 4109

Subjects:

628.3 Wa
Acc. No: 4105

Book Description:
This textbook is intended for use in university courses devoted to wastewater treatment plant design. Wastewater Treatment Plant Design includes the most important aspects of wastewater engineering and presents this material in a useful and organized manner. The primary purpose of the book is to provide an educational tool for the instructor in assisting students to better learn the theory and practice of wastewater treatment.

The primary source of material for this textbook was Design of Municipal Wastewater Treatment Plants (Manual of Practice No. 8, jointly published by the Water Environment Federation and the American Society of Civil Engineers in 1998). The 1998 three-volume set was edited for use in a classroom, reducing the detail in some areas while adding sufficient detail in others. The student edition of the textbook includes a separate student workbook containing instructional objectives, practical examples, and problems on tear-out sheets for each chapter as well as a detailed glossary of terms and list of conversion factors.

The assumption is that students using this book have had at least one course in environmental engineering and at least one course in fluid mechanics or hydraulics. Knowledge of calculus would be helpful but is not necessary. The student is expected to emerge from such a course having not only knowledge of the technology of wastewater treatment, but also a deeper understanding of the design process. The hope is that, upon completion of this course, the young engineer will be encouraged to always ask the “why” question and challenge the status quo.
The Yaws handbook provides the most comprehensive collection of data on chemical compounds ever compiled. Carl Yaws is recognized as the authority on chemical compounds in the field of chemical engineering, having authored a number of seminal works in this discipline. This compendium of over 41,000 organic and inorganic chemicals covers C1 to C100 organics and Ac to Zr inorganics with useful applications for the following audiences:

- Chemists
- Chemical engineers
- Process engineers
- Chemical engineering students
- Chemistry students

The handbook has been designed and formatted for use in the field, lab or classroom and provides the reader with unqualifed access to comprehensive data on chemical compounds. The data contained on these 41,000 compounds is an essential component to any engineer's or chemist's professional library.