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The Handbook of Adhesives and Sealants, 2nd Edition is primarily written to assist all those who have a permanent or temporary

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interest in adhesives and sealants. For those new to the field, the Handbook will provide a fundamental knowledge base of materials and processes as well as reasons why they work and (more importantly) why they don't work.

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To the more experienced reader, the breadth and thoroughness of the Handbook will provide a way to reduce time spent on trial and error development or on searching for the optimal recommended process. For the

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academic, the Handbook will connect the important theories regarding surface science, polymeric materials, and mechanics with practical products and applications of commercial significance. This edition includes

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major new sections on radiation curable adhesive, biological and naturally occurring adhesives, inorganic adhesives, role of bulk properties of the adhesive, non-destructive testing, and industrial application methods. A completely

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new chapter is devoted to adhesives used in various industries such as automobile, electrical / electronic, construction, packaging, aerospace, household do-it-yourself, and medical.

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The definitive water quality and treatment resource--fully revised and updated Comprehensive, current, and written by leading experts, Water Quality & Treatment: A Handbook on Drinking Water, Sixth Edition

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covers state-of-the-art technologies and methods for water treatment and quality control. Significant revisions and new material in this edition reflect the latest advances and critical topics in water supply and

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treatment. Presented by the American Water Works Association, this is the leading source of authoritative information on drinking water quality and treatment. NEW CHAPTERS ON: Chemical

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*principles, source water
composition, and watershed
protection Natural treatment
systems Water reuse for drinking
water augmentation Ultraviolet
light processes Formation and
control of disinfection by-products*

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*DETAILED COVERAGE OF:
Drinking water standards,
regulations, goals, and health
effects Hydraulic characteristics
of water treatment reactors Gas-
liquid processes and chemical
oxidation Coagulation,*

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*flocculation, sedimentation, and
flotation Granular media and
membrane filtration Ion exchange
and adsorption of inorganic
contaminants Precipitation,
coprecipitation, and precipitative
softening Adsorption of organic*

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*compounds by activated carbon
Chemical disinfection Internal
corrosion and deposition control
Microbiological quality control in
distribution systems Water
treatment plant residuals
management*

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Provides background information, historical perspective, and expert commentary on the ASME B31.3 Code requirements for process piping design and construction. It provides the most complete coverage of the Code that is

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available today and is packed with additional information useful to those responsible for the design and mechanical integrity of process piping.

Guidelines for Pressure Boundary Bolted Flange Joint Assembly

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*Reverse Engineering:
Mechanisms, Structures, Systems
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Linden's Handbook of Batteries,
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Boiler & Pressure Vessel Code*

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*Biofuels Engineering Process
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Helps in analyzing and designing
fluid flow and piping systems
projects. This work, blending
theoretical review and engineering
practicality, provides a treatment of
pumps, pipes and piping systems,*

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This textbook presents the art and science of concrete in a simple, clear, hands-on manner. Cement and concrete are predicted to be the

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premier building material of the 21st Century Includes unique diagrams, photographs, and summary tables Updated to include new chapters on non-destructive methods for concrete; future challenges in concrete technology; an increased number of examples of concrete

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applications; and new developments in durability Provides engineers and technicians with detailed data and information on the characteristics, properties, performance, and uses of all types of electric batteries.

Biofuels Engineering Process

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Technology

***Business Plans that Work: A Guide
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***Manufacturing Planning and
Control for Supply Chain
Management***

***Handbook of Nondestructive
Evaluation, Second Edition***

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***Manual for determining the
remaining strength of corroded
pipelines***

New Process Technology for
Developing Low-Cost,
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Rising fuel prices have created a
surge in the worldwide demand

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for biofuels made from plant and animal feedstocks. Filled with a wealth of illustrations, Biofuels Engineering Process Technology fully explains the concepts, systems, and technology now being used to produce biofuels on both an industrial and small scale.

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Written by a team of leading biofuels experts, this lucid guide presents a complete introduction to biofuels and biorefining processes...state-of-the-art information on biofuels processed from fermentations of ethanol, hydrogen, microbial oils, and

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methane...new material on the production of biodiesel from plant and algal oils...and the use of microbial fuel cells to produce bioelectricity. Biofuels Engineering Process Technology takes readers step by step through: The key concepts,

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pathways and kinetic modeling of
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hydrogen, microbial oils, and

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processed from the chemical
conversion of microbial and plant
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sustainable biorefinery concepts
and methods Inside This Cutting-
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- Introduction
 - Fuels from Fermentations: Ethanol
 - Hydrogen
 - Microbial Oils
 - Methane
 - Fuel from Chemical Conversion of Plant and Algal Oils: Biodiesel
 - Microbial Fuel Cells
 - Technical Resources
- In a world where waste

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incinerators are not an option and landfills are at over capacity, cities are hard pressed to find a solution to the problem of what to do with their solid waste. Handbook of Solid Waste Management, 2/e offers a solution. This handbook offers an

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integrated approach to the planning, design, and management of economical and environmentally responsible solid waste disposal system. Let twenty industry and government experts provide you with the tools to design a solid waste

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management system capable of disposing of waste in a cost-efficient and environmentally responsible manner. Focusing on the six primary functions of an integrated system--source reduction, toxicity reduction, recycling and reuse, composting,

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waste- to-energy combustion, and landfilling--they explore each technology and examine its problems, costs, and legal and social ramifications.

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- Use and Occupancy Classification
- Special Detailed Requirements Based on Use and Occupancy
- General Building Heights and Areas
- Types of Construction
- Fire and Smoke Protection Features
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Finishes • Fire Protection Systems
• Means of Egress • Accessibility
• Interior Environment • Exterior
Walls • Roof Assemblies and
Rooftop Structures • Structural
Design • Special inspections and
tests • Soils and Foundations
• Concrete • Masonry • Steel

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- Safeguards During Construction
- Polymer Science and Technology

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Water Quality & Treatment: A
Handbook on Drinking Water
Refrigeration Piping and Heat
Transfer Components
The Properties of Gases and
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Principles, Practice and
Economics of Plant and Process

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Design

Instant answers to your toughest questions on piping components and systems! It's impossible to know all the answers when piping questions are on the table - the field is just too broad. That's why even the most experienced engineers turn to Piping Handbook,

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analytical tools, and illustrated with
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business. You will learn how to:
Determine what to include in each plan, why, and for whom
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\$5,000 to \$40,000 per person
a supplement to ASME B31 code for
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Power Boilers

Modern Plastics Handbook

A Guide to Section I of the ASME
Boiler and Pressure Vessel Code

Perry's Chemical Engineers'

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Handbook

Must-have reference for processes involving liquids, gases, and mixtures Reap the time-saving, mistake-avoiding benefits enjoyed by thousands of chemical and process design engineers,

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***research scientists, and
educators. Properties of
Gases and Liquids, Fifth
Edition, is an all-inclusive,
critical survey of the most
reliable estimating methods
in use today --now completely
rewritten and reorganized by***

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***Bruce Poling, John Prausnitz,
and John O'Connell to reflect
every late-breaking
development. You get on-the-
spot information for
estimating both physical and
thermodynamic properties in
the absence of experimental***

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data with this property data bank of 600+ compound constants. Bridge the gap between theory and practice with this trusted, irreplaceable, and expert-authored expert guide -- the only book that includes a

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critical analysis of existing methods as well as hands-on practical recommendations. Areas covered include pure component constants; thermodynamic properties of ideal gases, pure components and mixtures; pressure-

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volume-temperature relationships; vapor pressures and enthalpies of vaporization of pure fluids; fluid phase equilibria in multicomponent systems; viscosity; thermal conductivity; diffusion coefficients; and surface

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tension.

The State of the Art in High-Power Laser Technology Filled with full-color images, High-Power Laser Handbook offers comprehensive details on the latest advances in high-power laser development and

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applications. Performance parameters for each major class of lasers are described. The book covers high-power gas, chemical, and free-electron lasers and then discusses semiconductor diode lasers, along with the

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associated technologies of packaging, reliability, and beam shaping and delivery. Current research and development in solid-state lasers is described as well as scaling approaches for high CW powers, high pulse

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***A complete, up-to-date guide
to the leading product testing
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nondestructive testing (NDT) procedures, this practical resource reviews established and emerging methods for examining materials without destroying them or altering their structure. Handbook of Nondestructive Evaluation,

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Second Edition offers in-depth details on the background, benefits, limitations, and applications of each method. The book provides advice on how to interpret results and formulate accurate decisions based on your findings. New

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chapters on digital radiography, ultrasonic phased array testing, and ultrasonic guided wave inspection are included. This is a must-have reference for NDT certification candidates, engineers, metallurgists,

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***quality control specialists,
and anyone involved in
product design, manufacture,
or maintenance. Handbook of
Nondestructive Evaluation,
Second Edition covers:
Introduction to
nondestructive testing***

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State-of-the-art guide to plastic product design, manufacture and application. Edited by Charles A. Harper and sponsored by Modern Plastics, the industry's most prestigious trade magazine, Modern Plastics Handbook packs a wealth of up-to-date knowledge

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about plastics processes, forms and formulations, design, equipment, testing and recycling. This A-to-Z guide keeps you on top of: *Properties and performance of thermoplastics, polymer blends...thermosets, reinforced plastics and

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***composites...natural and
synthetic elastomers *Processes
from extrusion, injection and
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foam processing, hand lay-up and
filament winding, and many,
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***A comprehensive look at reverse
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book examines the often***

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underappreciated and occasionally maligned technique of reverse engineering. More than a shortcut for the lazy or unimaginative to reproduce an artless copy of an existing creation, reverse engineering is an essential brick - if not a

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from form and fit The rich heritage of engineering breakthroughs enabled by reverse engineering is also discussed. This is not a dry textbook. It is the engaging and enlightening account of the journey of engineering from the astounding

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***purpose, and functionality during
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Antikythera mechanism
Identifying materials-of-
construction Inferring methods-
of-manufacture or -construction
Construction of Khufu's pyramid
Assessing design suitability Value***

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***and production engineering
Reverse engineering of materials
and substances Reverse
engineering of broken, worn, or
obsolete parts for remanufacture
The law and the ethics of reverse
engineering
First edition, 1998 by Martin D.***

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***Bernstein and Lloyd W. Yoder.
Handbook of Solid Waste
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***Criteria and Commentary on
Select Aspects of the Boiler &
Pressure Vessel and Piping Codes***

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A Fully Updated, In-Depth Guide to Water and Wastewater Engineering Thoroughly revised to reflect the latest advances, procedures, and regulations, this authoritative resource contains comprehensive coverage of the design and construction of municipal water and wastewater

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facilities. Written by an environmental engineering expert and seasoned academic, Water and Wastewater Engineering: Design Principles and Practice, Second Edition, offers detailed explanations, practical strategies, and design techniques as well as hands-on safety protocols and

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- The design and construction processes*
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recycling The book is highly suitable
for all entrepreneurs and professionals
engaged in production of as well as
research and development in
polymers. It will also be found*

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immensely useful by advanced level students of physics, chemistry, materials science, and electronics specializing in polymers, as well as students of electronics, chemical and metallurgical engineering having courses in polymer technology/materials science and

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technology.

Piping Handbook

*Surface Roughness, Waviness and
Lay*

Concrete

Handbook of Batteries

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master planning methodology.
The methodology leads to metrics,
process designs, system designs,
and organizational strategies for
total supply chain management,
total logistics management,
customer response, inventory

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will both complement and support a company's strategic objectives and long-term success.

Logistics the flow of material, information, and money between consumers and suppliers has become a key boardroom topic. It

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is the subject of cover features in business publications from Wall Street Journal to BusinessWeek. Annual global logistics expenditures exceed \$3.5 trillion, nearly 20 percent of the world's GDP, making logistics perhaps the

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last frontier for major corporations to significantly increase shareholder and customer value. And at the heart of every effort to improve organizational logistics performance? Supply chain

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material and information flow
problems, pinpointing
opportunities for process
improvements, and providing an
objective basis for project-team
decision making Inventory
planning and

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managementpresenting metrics,
processes, and systems for
forecasting, demand planning,
and inventory control, yielding
lower inventory levels and
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Web-based logistics helping to substitute information for inventory and work content Transportation and distribution for connecting sourcing locations with customers at the lowest cost by, among other things,

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enterprises Supply Chain Strategy explains and demonstrates how decision makers can use today's technology to enhance key logistics systems at every point in the supply chain, from the time an idea or product is conceived

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through its delivery to the final user. It describes the major steps in developing an effective, workable logistics management programone that will reduce operating expenses, minimize capital investment, and improve

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comprehensive coverage of battery technology, characteristics, and applications
This fully updated guide offers complete coverage of batteries and battery usage—from classic designs to emerging technologies.

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Compiled by a pioneer in secondary lithium batteries, the book contains all the information needed to solve engineering problems and make proper battery selections. You will get in-depth descriptions of the

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principles, properties, and performance specifications of every major battery type. Linden's Handbook of Batteries, Fifth Edition, contains cutting-edge data and equations, design specifications, and

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process technology. Written
by a team of industry-
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Engineering Process
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shows, step by step, how
renewable feedstocks are
processed and how biofuels
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