This comprehensive book is the only one that addresses theory, practice, management, purchasing and marketing of cooling water systems in one volume.

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Different treatments, pre-treatment equipment, devices; application of different chemicals; and computer software programs are analyzed in the chapters on Chemical Treatments & Programs for Cooling Water Systems; and Microbiological Control Programs.

Specially important to decision-makers, water treatment field personnel, and cooling water systems marketing personnel are the chapters on Buying and Selling Cooling Water Programs; Surveys, Inspections and Cooling Water Program Selection.

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An indispensable source for: Chemical, Plant, Maintenance, Operations, Process and Utility Services Engineers; specialty chemicals companies personnel and cooling water systems marketing personnel.
CONTENTS: Cooling System & Heat Exchange Essentials; Make-up Water Sources & their Impurities; Make-up Water Pre-Treatment Processes; Corrosion, Fouling & Deposition; Chemical Treatments & Programs for Cooling Water; Micro-biological Control Programs; Buying and Selling Cooling Water Programs; Surveys, Inspections & Cooling Water Program Selection; Managing Cooling Water Programs; Monitoring & Control; Appendix 1: Useful Data; Appendix 2. Glossary of Terms; Appendix 3. Summary of Charts & Notes for Field Use; References; Index.

BOILER WATER TREATMENT: PRINCIPLES AND PRACTICE
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THE CHEMICAL TREATMENT OF COOLING WATER
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JAMES W. McCOY
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This standard reference serves the industrial community as an authoritative source on cooling water problems. The problems of corrosion measurement and control are intensively examined and the more recently developed cooling water additives are reviewed. Advances in treatment chemicals and chemical cleaning are thoroughly explored:

PARTIAL CONTENTS: Principles of Open Recirculating Water Systems; Corrosions; Scaling and Fouling; Microbiology; Chemical Treatments; Operating Procedures; Analytical Methods.

THE MICROBIOLOGY OF COOLING WATER
JAMES W. McCOY
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McCoy’s guide to the maintenance and management of cooling water systems and the bacteria that live in them. Includes studies and testing of microbicides and other microorganisms that infest recirculating cooling water systems and factors influencing their health and growth. Tests biological oxidation processes as a way of reusing treated effluents as an important method of water conservation in the petroleum refining and chemical processing industries. Explores practical methods for controlling microorganisms in cooling water; including working with chlorine dioxide as a microbicide. Methods are given for identifying and evaluating toxicants and bacteria that lead to fouling and staining of cooling water systems.

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CONTENTS: Historical background of cooling towers; Development of cooling tower theory; Merkel and Enthalpy Potential; Lists laboratory testing facilities and test procedures; Field Testing; Tower Selection and Rating Tables; Tower Units and Universal Rating Charts; General Operating Principles; Hyperbolic Towers;

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RON LANCASTER, MBE
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All the chapters from the previous edition have been revised and enlarged to include in most cases new fireworks formats. Four new chapters have been added to this 3rd Edition:

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16. Shells
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HANDBOOK OF PYROTECHNICS
KARL O. BRAUER
416 pages, Illustrations
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H. BENNETT
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HANDBOOK OF PERFUMES AND FLAVORS
DR. OLINDO SECON DINI
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This unique, comprehensive source book provides a thorough guide to the compounding of basic floral perfumes for cosmetics, soaps, disinfectants, deodorants, and flavors for food. Regardless of scientific and technical education or experience in this field, this book will assist those involved in compounding perfume and flavor for all aspects of their application in the chemical industry.

PARTIAL CONTENTS: Fundamental Classification of Odors; Constituents of Essential Oils; Synthetic Essences; Aromatic Chemicals; Basic Flavoring Material; Perfumes; Solvents for Flavors and Perfumes; Coloring Material for Flavors and Perfumes; Formulary of Flavors and Perfumes.
CEMENT TECHNOLOGY & ENGINEERING

CEMENT MANUFACTURER’S HANDBOOK
KURT E. PERAY
408 pages
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This unique handbook contains the most essential engineering formulas used in the cement manufacturing process. All formulas are presented in both English and metric systems of units. Examples are given to familiarize the reader with the usefulness of these formulas. The book can be used as a text manual for courses in cement technology, and as a reference for solving operating problems. The book is equally valuable for the manager, supervisor, chemist, and operator as it is to the cement plant engineer.

CONTENTS: Cement Chemistry and Quality Control; Kiln Feed Mix Calculations; Chemical and Physical Properties of Materials; Technical Investigations of Kiln Performance; Heat Balance; Sulfur and Alkali Balance in Rotary Kilns; Chain Systems Designs; Cooler Air Balance Technical Investigation of Grinding Circuits; Ball Charges; Grinding Aid Solutions; Useful Formulas in Stearn Engineering Electrical Engineering; Fan Engineering; Fluid Flow; Physical Chemistry; Heat Transfer and Dust Collection; Fundamental Formulas in Algebra; Trigonometry; Statistics; Finances; Safety and Geometry; Conversion Factors for all Units.

THE ROTARY CEMENT KILN
2nd Edition
KURT E. PERAY
396 pages, Illustrations
Paperback
$ 80.00
£ 48.00
ISBN 0-8206-0367-8

This is an indispensable reference source and training tool not only for kiln operators, but for supervisors and management staff as well. Extensive discussions on pre-heater and pre-calciner operations are included. The appendix includes a section with conversion tables, definitions of common terms relating to rotary kilns, and a suggested outline for a training program for new operators.

CONTENTS: History; Types of Rotary Kilns; Refractories; Fuels; Combustion;
The Flame; Heat Transfer; Heat Balances; The Chemistry of Kiln Feed and Clinker; Reaction Zones in the Rotary Kiln; Coating and Ring Formation in a Rotary Kiln; The Air Circuit in a Rotary Kiln; Movement of the Material Through The Kiln; Kiln Operating and Control Methods; Instrumentation; Burning Zone Control; Fuel Systems; Clinker cooler Control; Kiln Exit-Gas Temperature Control; Feed-Rate Control; Kiln Starts and Shutdowns; The 27 Basic Kiln Conditions; Kiln Emergency Conditions; Safety and Accident Prevention; Appendix: A KILN OPERATOR’S QUIZ; Glossary; Conversion Tables; Index.

F.M. LEA
740 pages, Illustrations
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F.M. LEA’S last living edition. The advances in the chemistry and physics of cements led to the necessity for this third edition. Lea’s book deals with the chemical and physical properties of cements and concretes and their relation to the practical problems that arise in their manufacture and use. It will be of great interest not only to the chemist involved in the science and technology of silicate materials but also to those using concrete in building and civil engineering construction. Attention is given to problems arising in the use of concrete, from the suitability of materials, to the conditions under which concrete may deteriorate and the precautionary or remedial measures that can be adopted. It is well illustrated with line drawings, tables and photographs.

PARTIAL CONTENTS: History of calcareous cements; Classification of cements; Portland cements: Raw materials and manufacturing processes; Cement components and their phase relations; Cementing qualities of the cement compounds; Constitution, burning, proportioning, hydration and setting and hardening of Portland cement; Structure of cement compounds; Action of acid and sulphate waters of Portland Cement; Physical and mechanical properties of Portland Cement, Pozzolanas and Pozzolanic cements; Cements made from blast furnace slag; High Alumina cement, some special cements and cement properties; Concrete aggregates; Resistance of Concrete to various organic and inorganic agents; Examination of concrete failures.
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A TEXTBOOK OF SOIL CHEMICAL ANALYSIS
P.R. HESSE
556 pages
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WHAT EVERY TECHNOLOGIST WANTS TO KNOW ABOUT....SERIES
Ed. M & I ASH
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CONTENTS:

Search Orientation Table. Primary Sources: Aldrich Catalog/Handbook of Fine Chemicals; Annual Reports in Organic Synthesis; Beilstein; Hadbuch der Organischen Chemie; Chemical Abstracts; Chemist’s Companion; Compendium of Organic Synthetic Methods; Comprehensive Organic Chemistry; Comprehensive Organometallic Chemistry; Comprehensive Organic Functional Group Transformations; CRC Handbook of Chemistry and Physics; Dictionary of Organometallic Compounds; Dictionary of Organic Compounds; Dissertations; Encyclopedia; Encyclopedia of Reagents for Organic Synthesis; Fieser’s Reagents for Organic Synthesis; Formation of C-C Bonds; Houben-Weyl Methoden der Organischen Chemie; Internet; Kirk-Othmer Encyclopedia of Chemical technology; Lange’s Handbook of Chemistry; Larock’s Comprehensive Organic Transformations; Literature; Merck’s Indexes; Organic Reactions; Organic Synthesis; Patai’s Chemistry of Functional Groups Series; Patents; Purchasing Chemicals; Rod’s Chemistry of Carbon Compounds; Science Citation Index; Scientific Dictionaries; Theilheimer’s Synthetic Methods of Organic Chemistry; Translations. Reviews.
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Henry H. Hausner
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HANDBOOK OF LABORATORY SOLUTIONS
M.H. GABB, W.E. LATCHAM
128 pages
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A concise and handy guide to the numerous “recipes” for chemical solutions used in laboratories. In each chapter, preparations of one particular use, or related uses, are grouped alphabetically. Where appropriate, the use of the solutions are stated and cross reference made. Should meet most of the everyday requirements of chemistry, physics, biology and engineering laboratories.

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The many advances in polymers and their associated processes have rendered necessary this new edition from Mr Miles and Mr Briston—two very renowned and respected British authors. Polymer and Material Scientists in industrial, academic and government laboratories, as well as researchers and managers who need to keep abreast of developments in Polymer Technology will find this an invaluable practical reference source: New additions include sections on Stretch Blow Molding, Multi-layer (Coextrusion), Bottle Blowing, and Decoration of Plastics, with a new chapter on Thermoplastic Polyesters. The MATERIAL Chapters (Thermosets and Thermoplastics, Natural Polymers and Derivatives; Rubberlike Polymers, Inorganic Polymers, Compounding Ingredients), were updated to include linear low density polyethylene (LLDPE), pearlescent polypropylene, amorphous nylons (Sear PA), poly (ethylene terephthalate) (PET), ethylene/vinyl alcohol copolymers (EVOH), poly (etherimide) (Ultem), and poly (etheretherketone) (PEEK). The updated chapters on PROCESSING (Compression and Transfer Molding, Extrusion, Injection Molding and Blow Molding, Thermoforming, Powder Coating, Miscellaneous Processing Techniques) take account of developments in Powder Coating, Coextrusion, Injection and Blow Molding, Solid Phase Pressure Forming, and Thermoforming (including blister and skin packaging). The TESTING Chapter (Physical and Chemical Testing of Plastics) as well as the APPLICATION aspects are updated and expanded to include Water Vapor. The section on Optical Tests has also been updated and enlarged.

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the chemical analysis of the deposits with procedures for determining the most effective cleaning solutions is included. This book will serve as the main reference tool for the industrial engineer who manages equipment cleaning operations and the consultant who is called in to do the job.

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PARTICULATE SCIENCE AND TECHNOLOGY
JOHN K. BEDDOW
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