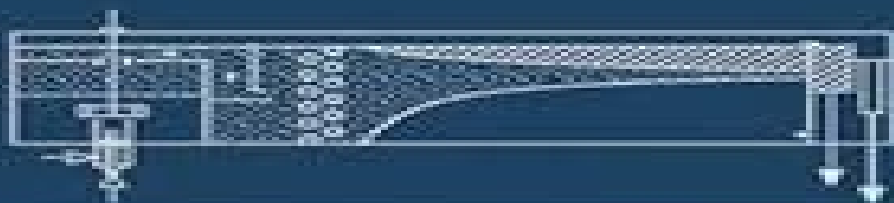


Phosphoric Acid

Purification, Uses, Technology,
and Economics



Rodney Gilmour



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Phosphoric Acid Rodney Gilmour, 2013-12-12 The rise and rationalization of the industrial phosphates industry have gone hand in hand with the development and maturation of technologies to purify phosphoric acid In the 1960s and 70s driven by the exponential sales growth of the detergent builder sodium tripolyphosphate chemical producers raced to develop processes that would provide a sufficiently pure phosphoric acid feedstock for manufacture to undercut thermal phosphoric acid made from phosphorus As environmental and political pressure led to a collapse in demand for sodium tripolyphosphate in the 1990s the commercial pressures to rationalize at plant and corporate levels rose such that only the fittest survived Phosphoric Acid Purification Uses Technology and Economics the first and only book of its kind to be written on this topic covers the development of purification technologies for phosphoric acid especially solvent extraction describing the more successful processes and setting this period in the historical context of the last 350 years Individual chapters are devoted to the key derivative products which are still undergoing active development as well as to sustainability and how to approach the commissioning of these plants The text is aimed at students of chemistry chemical engineering business and industrial history and to new entrants to the industry *Geopolymers and Composites* Huirong Le, Kaibao Wang, Longyuan

Li, 2025-05-29 This book offers comprehensive insight into recent advances in geopolymer composites and emerging processing technologies such as 3D printing that offer promising application prospects in a wide range of industries Covers novel applications of geopolymers and composites in industries such as fire retardation coatings refractory materials water treatment and marine structures Offers guidance on joint treatment of industrial waste acids and solid wastes Describes energy consumption carbon emissions and costs for various compositions of geopolymers which provide an effective basis for industrialization Provides guidance for design and preparation of geopolymer products based on typical local wastes With topical coverage that will help readers make full use of local resources and promote the sustainable development of enterprises this reference is aimed at those working with new materials for refractory construction and building civil engineering and water treatment among others **Handbook for Chemical Process Industries** Himanshu J

Patel, 2023-10-06 Chemical processing industry plays a pivotal role in the economy of a country as chemicals are required in every sphere of our lives This book covers chemical processing of dyes pigments drugs and pharmaceutical products fermented products agrochemicals explosives polymers Period II and III chemicals chemicals sugar coatings starches soaps and detergents paper pulp glass and cement It includes sources of natural materials collection process purification and extraction of different chemicals from natural materials like petroleum coal and ores from the Earth It includes manufacturing details of C1 to C4 and aromatic compounds obtained from natural materials The book covers both traditional and modern sectors of the chemical processing industry It provides knowledge on the properties of the chemical and manufacturing process such as raw materials chemical reactions quantitative requirement flow sheet diagram procedure and

its uses The book is based on the author s expertise and has been developed with an awareness of the quantitative requirement for manufacturing chemicals Data has been collected from industry thus it will be useful to industry personnel research groups academicians and institutional organizations Current Advances in Solid-State Fermentation Ashok Pandey,Christian Larroche,Carlos Ricardo Soccol,Reeta Rani Singhania,2025-09-01 Current Advances in Solid State Fermentation Current Developments in Biotechnology and Bioengineering Second Edition offers a detailed examination of the latest advancements in solid state fermentation This comprehensive overview covers scientific technological and engineering progress within the bioprocessing field Key topics include bioreactor designs fermentation processes genetically modified microbes process modeling and optimization extraction techniques and media preparation The book s historical perspective coupled with its discussion on bioprocess systems and kinetics sets the stage for understanding the fundamentals and applications of solid state fermentation Additionally the book emphasizes the integration of modern technologies such as artificial intelligence based modeling and intelligent control systems to meet industry demands and foster future advancements It serves as an essential resource for researchers and students providing a single point of reference from laboratory to industrial applications The text also highlights the importance of key principles for analysis optimization and design ensuring it remains a valuable reference in the field Includes advances in the design and scale up of bioreactors monitoring and control systems advances in upstream and downstream processing in SSF Incorporates design and development of fermentation processes such as suitability of experimental design full factorial central composite design Box Behnken Plackett Burman Includes use of AI ML in SSF processes *Calcium Orthophosphate-Based Bioceramics and Biocomposites* Sergey V. Dorozhkin,2016-03-23 Reflecting the advances made in recent years this is a comprehensive overview of calcium orthophosphates for bioceramics and biocomposites with a special focus on the detailed description of all those available including their biological and geological occurrence preparation chemical composition structure property relationships and applications In particular the book discusses the suitability of these orthophosphates for biomedical applications and their use as bone grafts in surgery and medicine The result is a useful reference for researchers with an academic medical or commercial background *Phosphorus Recovery and Recycling* Hisao Ohtake,Satoshi Tsuneda,2018-05-25 This book focuses on the engineering aspects of phosphorus P recovery and recycling presenting recent research advances and applications of technologies in this important and challenging area of engineering It highlights full scale applications to illustrate the performance and effectiveness of the new technologies As an essential element for all living organisms P cannot be replaced by any other element in biochemical processes humans ultimately rely its availability Today P is mostly obtained from mined rock phosphate Pi However natural reserves of high grade rock Pi are limited and dwindling on a global scale As such there have been increased efforts to recycle P from secondary sources including sewage sludge animal manure food waste and steelmaking slag and so close the anthropogenic P cycle In addition to various aspects

of phosphorus covered by other literature including chemistry biochemistry ecology soil plant systems and sustainable management this book is a valuable and comprehensive source of information on the rapidly evolving field of P recovery and recycling engineering for students researchers and professionals responsible for sustainable use of phosphorus

Water-Formed Deposits Zahid Amjad, Konstantinos D. Demadis, 2022-03-24 *Water Formed Deposits Fundamentals and Mitigation Strategies* wholly presents the important issue of deposits in aqueous systems both industrial and biological By analyzing causes mechanisms and mitigation strategies the book helps researchers engineers end users gain a fundamental understanding of the issues underlying deposit formation and mitigation It covers numerous fundamental aspects of water formed deposits while also giving an applications perspective The book's goal is to assist the reader in his/her understanding of the important issues of scale formation while also helping with potential solutions Provides a fundamental understanding of deposit formation by presenting basic science and mechanisms Presents an applications perspective Reveals a systematic overview of deposit related challenges and their mitigation Correlates structure to performance in mitigation strategies Analyzes current legal aspects and regulations Includes case studies from the real industrial world for the industrial reader end user *Development and Transfer of Technology Series*, 1980 **Fertilizer Science and Technology Series** Archie

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