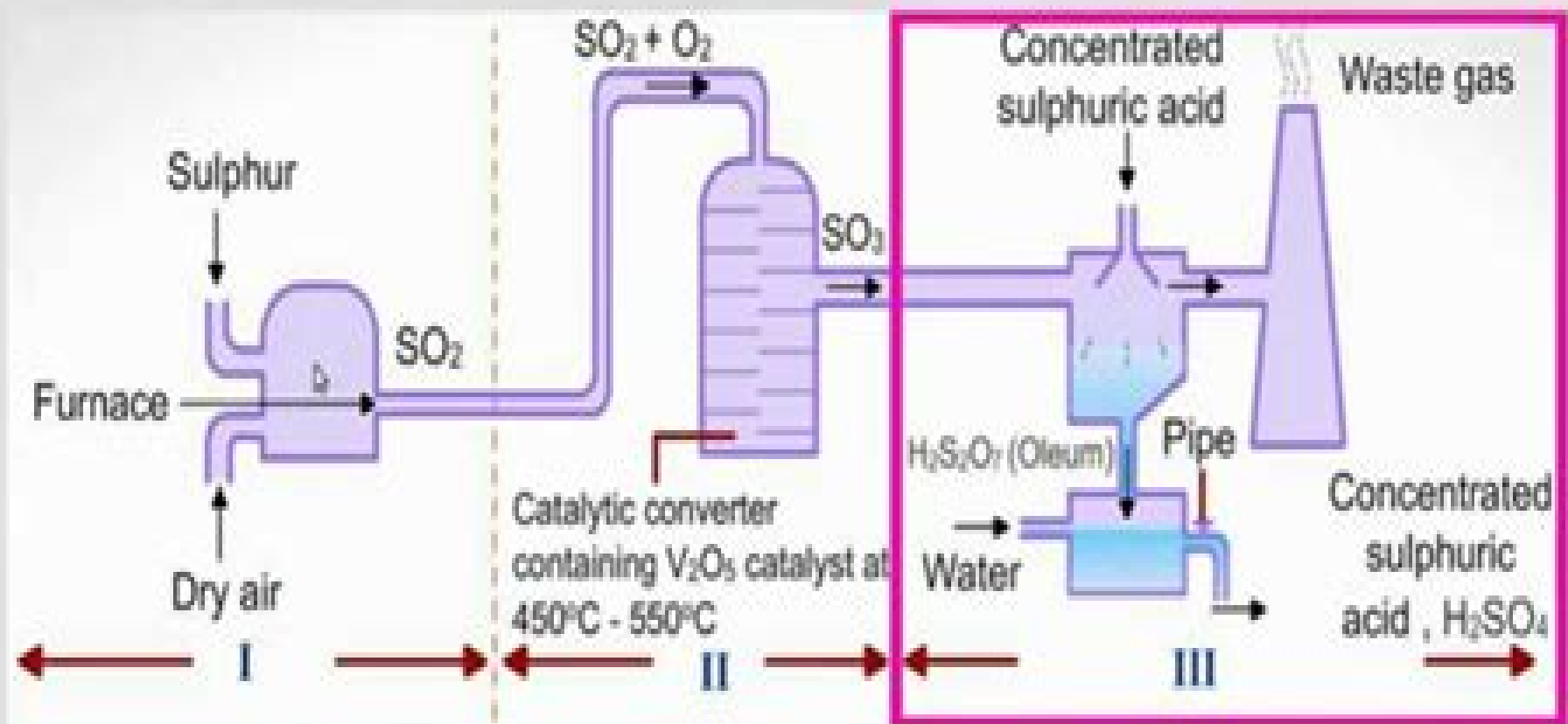


Manufacture of sulphuric acid in industry

►► Contact process



Sulphuric Acid Manufacture

Douglas K. Louie



Sulphuric Acid Manufacture:

Handbook of Sulphuric Acid Manufacturing Douglas K. Louie, 2005 **Sulfuric Acid Manufacture** Matt King, Michael Moats, William G. Davenport, 2013-05-11

By some measure the most widely produced chemical in the world today sulfuric acid has an extraordinary range of modern uses including phosphate fertilizer production explosives glue wood preservative and lead acid batteries An exceptionally corrosive and dangerous acid production of sulfuric acid requires stringent adherence to environmental regulatory guidance within cost efficient standards of production This work provides an experience based review of how sulfuric acid plants work how they should be designed and how they should be operated for maximum sulfur capture and minimum environmental impact Using a combination of practical experience and deep physical analysis Davenport and King review sulfur manufacturing in the contemporary world where regulatory guidance is becoming ever tighter and where new processes are being required to meet them and where water consumption and energy considerations are being brought to bear on sulfuric acid plant operations This 2e will examine in particular newly developed acid making processes and new methods of minimizing unwanted sulfur emissions The target readers are recently graduated science and engineering students who are entering the chemical industry and experienced professionals within chemical plant design companies chemical plant production companies sulfuric acid recycling companies and sulfuric acid users They will use the book to design control optimize and operate sulfuric acid plants around the world Unique mathematical analysis of sulfuric acid manufacturing processes providing a sound basis for optimizing sulfuric acid manufacturing processes Analysis of recently developed sulfuric acid manufacturing techniques suggests advantages and disadvantages of the new processes from the energy and environmental points of view Analysis of tail gas sulfur capture processes indicates the best way to combine sulfuric acid making and tailgas sulfur capture processes from the energy and environmental points of view Draws on industrial connections of the authors through years of hands on experience in sulfuric acid manufacture **The Manufacture of Sulphuric Acid in the United States** Arthur Edward Wells, Donald E. Fogg, 1920 Sulfuric Acid Manufacture Andrew Miller Fairlie, 1936 **Sulfuric Acid Manufacture** Matt King, Michael Moats, William G. Davenport, Matthew J. King, 2005-11-04

More sulfuric acid is produced every year than any other chemical It has a wide range of uses including phosphate fertilizer production explosives glue wood preservatives and lead acid batteries It is also a particularly corrosive and dangerous acid with extreme environmental and health hazards if not manufactured used and regulated properly Sulfuric Acid Manufacture Analysis Control and Optimization keeps the important topics of safety and regulation at the forefront as it overviews and analyzes the process of sulfuric acid manufacture The first nine chapters focus on the chemical plant processes involved in industrial acidmaking with considerable data input from the authors industrial colleagues The last 15 chapters are dedicated to the mathematical analysis of acidmaking Both Authors bring years of hands on knowledge and experience to the work making it an exceptional reference for anyone involved in sulfuric acid research

and or manufacture Only book to examine the processes of sulfuric acid manufacture from an industrial plant standpoint as well as mathematical Draws on the industrial connections of the authors through their years of hands on experience in sulfuric acid manufacture A considerable amount of industrial plant data is presented to support the text **A Practical Guide to the Manufacture of Sulfuric Acid, Oleums, and Sulfonating Agents** Navin G. Ashar,Kiran R. Golwalkar,2013-12-31 **The Manufacture of Sulfuric Acid** Werner W Duecker (ed.),James Robert West,1959 **The Chemistry of Sulphuric Acid Manufacture** Henry Arthur Smith,1873 The Manufacture of Sulphuric Acid in the United States Arthur Edward Wells,Donald E. Fogg,1920 Sulfuric Acid Manufacture Andrew M. Fairlie,1949 **The Manufacture of Sulphuric Acid (contact Process)** Frank Douglas Miles,1925 *The Manufacture of Sulphuric Acid and Alkali, with the Collateral Branches. A Theoretical and Practical Treatise* Georg Lunge,1913 Manufacture of Sulphuric Acid by Contact Process ,1921 The Manufacture of Acids and Alkalis: the manufacture of sulphuric acid (contact process) by F.D. Miles Georg Lunge,1925 **Raw Materials for the Manufacture of Sulphuric Acid and the Manufacture of Sulphur Dioxide** Wilfrid Wyld,1923 **The Manufacture of Sulphuric Acid and Alkali, with Collateral Branches** Georg Lunge,1917 **The Chemistry of Sulphuric Acid Manufacture** Henry Arthur Smith,2015-08-11 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant *Acids and Alkalis* Denise Walker,2007 This series provides an introduction to key scientific principles and processes **Air Pollution Aspects of Emission Sources: Sulfuric Acid Manufacturing** Air Pollution Technical Information Center,1971 **Process Industry Economics** David J. Brennan,1998 A primer for engineers giving an overview of key facets of international process economics The text covers market evaluation shows how to estimate capital and operating costs tackles project profitability and how to plan capacity

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