Handbook Of Chlor Alkali Technology

Modern Chlor-Alkali TechnologyModern Chlor-alkali TechnologyModern Chlor-Alkali TechnologyHandbook of chlor-alkali technologyModern Chlor-Alkali TechnologyModern Chlor-Alkali TechnologyHandbook of chlor-alkali technologyModern Chlor-alkali TechnologyHandbook of Chlor-Alkali TechnologyModern Chlor-alkali TechnologyChlor-alkali and Chlorate TechnologyModern Chlor-alkali TechnologyHandbook of Chlor-Alkali TechnologyModern Chlor Alkali TechnologyModern Chlor-alkali TechnologyRecent Developments in Chlor-Alkali TechnologyModern Chlor-alkali TechnologyMembrane Cell Technology of Chlor-alkali PlantModern Chlor-alkali TechnologyModern Chlor-Alkali Technology C. Jackson Kevin Wall John Moorhouse Thomas F. O'Brien T.C. Wellington N.M. Prout Thomas F. O'Brien C. Jackson Thomas F. O'Brien M. O. Coulter H. S. Burney C. Jackson Thomas F. O{u2019}Brien International Chlorine Symposium (4, 1985, London) S. Sealey Uhde India Ltd M. O. Coulter N. Kawasaki N.M. Prout Modern Chlor-Alkali Technology Modern Chlor-alkali Technology Modern Chlor-Alkali Technology Handbook of chlor-alkali technology Modern Chlor-Alkali Technology Modern Chlor-Alkali Technology Handbook of chlor-alkali technology Modern Chlor-alkali Technology Handbook of Chlor-Alkali Technology Modern Chlor-alkali Technology Chlor-alkali and Chlorate Technology Modern Chlor-alkali Technology Handbook of Chlor-Alkali Technology Modern Chlor Alkali Technology Modern Chlor-alkali Technology Recent Developments in Chlor-Alkali Technology Modern Chlor-alkali Technology Membrane Cell Technology of Chlor-alkali Plant Modern Chlor-alkali Technology Modern Chlor-Alkali Technology C. Jackson Kevin Wall John Moorhouse Thomas F. O'Brien T.C. Wellington N.M. Prout Thomas F. O'Brien C. Jackson Thomas F. O'Brien M. O. Coulter H. S. Burney C. Jackson Thomas F. O{u2019}Brien International Chlorine Symposium (4, 1985, London) S. Sealey Uhde India Ltd M. O. Coulter N. Kawasaki N.M. Prout

the book addresses the latest technical developments in the chlorine industry with emphasis on operational improvements the effects of economic political environmental and safety issues surrounding the industry are covered

annotation foreword it is surprising that we had to wait so long for a new book that gives a comprehensive treatment of chlor alkali manufacturing technology technologists are largely still making do with the classical book edited by sconce but that is more than thirty years old at the time of its publication metal anodes

were just beginning to appear and ion exchange membrane technology was confined to laboratories the various encyclopedias of industrial technology have more up to date information but they are necessarily limited in their scope schmittinger recently provided an excellent shorter treatment of the broad field of chlorine technology and applications after discussing electrolysis and the principal types of cell this too gives rather brief coverage to brine and product processing it then follows on with descriptions of the major derivatives and direct uses of chlorine and a discussion of environmental issues the last feature named above has relieved the authors of this work of the obligation to cover applications in any detail instead they provide a concentrated treatment of all aspects of technology and handling directly related to the products of electrolysis it covers the field from a history of the industry through the fundamentals of thermodynamics and electrochemistry to the treatment and disposal of the waste products of manufacture membrane cells are considered the state of the art but the book does not ignore mercury and diap

the papers in this volume were presented at the 1991 london international chlorine symposium held at the intercontinental hotel from 5th 7th june this was the sixth symposium in a series organized by the electrochemical technology group of the sci and held in london at intervals of three years a continued high level of interest in the proceedings was demonstrated by offers of 40 papers and of these 26 were selected for inclusion in the programme the conference intention was to reflect the developments in chlorine technology hardware and software and to address the economic political environmental and safety issues which are increasingly impacting on the chlorine industry as the millennium approaches in the event the five sessions were broadly based on the following topic areas chlorine and the environment membranes 1 membranes 2 chlorine safety electrodes electrode reactions not unexpectedly the importance of membrane technology to the industry was reflected by the inclusion of 9 papers however the traditional diaphragm mercury and chlorate cell technologies were also represented the academic base of the organizing body was underlined by the selection of papers from the universities of milan and calgary and by the opening and closing remarks of the chairman of the sci electrochemical technology group frank goodridge professor emeritus of newcastle university the opportunity was taken to present the sci castner medal to dr h miyake of asahi glass co ltd for his work on the design and development of flemion electrodes

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were presented during the two and a half day event covering the latest developments in chlor alkali technology the field of membranes and membrane cells was well represented by some 15 papers reflecting the importance of membrane technology to the future of the industry this is particularly relevant in view of increasing environmental pressures and rising costs however papers relating to the more traditional mercury and diaphragm cell technologies were also presented together with a paper concerned with sodium chlorate manufacture in addition there were presentations covering the commercial and safety aspects of the chlor alkali industry the electrochemical technology group of the society of chemical industry offer thanks to the many people and organisations whose help ensured the success of this symposium in particular we would like to thank 1 the contributors of the papers 2 the session chairmen dr r g smerko the chlorine institute inc mr b lott the associated octel company limited mr t f o brien united engineers and constructors dr b s gilliatt ici chemicals and polymers limited mr d bell hays chemicals limited 3 the chlorine institute for assistance with printing costs and for active participation

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the other the production of hypochlorite industrial hygiene and speculations on future developments in technology there is an appendix with selected physical property data the authors individually have extensive experience in chlor alkali technology but with diverse backgrounds and fields of specialization this allows them to achieve both the breadth and the depth which are offered here the work is divided into five volumes successively treating fundamentals brine preparation and treatment production technology support systems such as utilities and instrumentation and ancillary topics anyone with interest in the large field of chlor alkali manufacture and distribution and indeed in industrial electrochemistry in general will find something useful here the work is recommended to students chlor alkali technologists electrochemists engineers and producers shippers packagers distributors and consumers of chlorine caustic soda and caustic potash this book is thoroughly up to date and should become the standard reference in its field barrie s gilliatt executive director euro chlor

made from common salt and water chlorine and its co product caustic soda are two of the most basic building blocks used for a wide range of products valued by society the handbook of chlor alkali technology provides comprehensive and concise treatments of all aspects of technology and handling directly related to the products of electrolysis a long awaited comprehensive treatment it covers the field from a history of the industry through the fundamentals of thermodynamics and electrochemistry to the treatment and disposal of the waste products of manufacture while membrane cells are considered state of the art the handbook does not ignore mercury and diaphragm cells they are considered both from a historical perspective and as examples of current technology that yet evolves special attention to paid to safe handling of the products the obligations of responsible care and process safety management other major topics include corrosion membranes electrolyzer design brine preparation and treatment and the design and operation of processing facilities the coverage of membranes is both fundamental and applied the underlying transport processes and practical experience with existing types of membrane both are covered as is electrolyzer design the book explores the basic electrode processes and the fundamentals of current distribution in electrolyzers as well as the characteristics of the leading cell designs while the appendix offers selected physical property data the authors each with extensive experience in chlor alkali technology but with diverse backgrounds and fields of specialization achieve both breadth and depth anyone with interest in the large field of chlor alkali manufacture and distribution and indeed in industrial electrochemistry in general will find something useful here the handbook offers not only broad coverage but also in depth treatment of each topic it will be an asset to managers process engineers and operating personnel working in the chlor alkali industry this book provides valuable information to engineers and scientists

involved in development of chlor alkali technology and in the design of new plant or upgrading of existing plants it will be especially valuable to universities as it begins with fundamentals and progresses methodically throu gh each step involved in chlor alkali production including environmental issues from the foreword by barrie s gilliatt executive director euro chlor anyone with interest in the large field of chlor alkali manufacture and distribution and indeed in industrial electrochemistry in general will find something useful here the work is recommended to students chlor alkali technologists electrochemists engineers and producers shippers packagers distributors and consumers of chlorine caustic soda and caustic potash this book is thoroughly up to date and should become the standard reference in its field

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