

Handbook Of Cane Sugar Engineering

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hugot s handbook of cane sugar engineering needs little introduction it can be found in technical libraries in cane sugar producing countries all over the world unique in the extent and thoroughness of its coverage the book has for many years provided the only complete description of cane sugar manufacture mills diffusers boilers and other factory machinery calculation methods of capacity for every piece of equipment and process and manufacturing techniques this new edition has been extensively revised information

that has become obsolete or of little interest has been deleted or severely shortened detailed additions have been made to chapters dealing with recently developed equipment an entirely new chapter has been added on automation and data processing numerous figures graphs drawings photographs tables and formulae are provided the metric system has been used throughout the book but because many factories still use the british units all measures formulae and tables and nearly all calculations have been given in both systems

handbook of cane sugar engineering focuses on the technologies equipment methodologies and processes involved in cane sugar engineering the handbook first underscores the delivery unloading and handling of cane cane carrier and knives and tramp iron separators the text then examines crushers shredders combinations of cane preparators and feeding of mills and conveying bagasse the manuscript takes a look at roller grooving pressures in milling mill speeds and capacity and mill settings topics include setting of feed and delivery openings and trash plate factors influencing capacity formula for capacity fiber loading tonnage records linear speed and speed of rotation sequence of speeds hydraulic pressure and types of roller grooving the book then elaborates on electric and turbine mill drives mill gearing construction of mills extraction milling control purification of juice filtration evaporation sugar boiling and centrifugal separation the handbook is a valuable source of data for engineers involved in sugar cane engineering

introduction to cane sugar technology provides a concise introduction to sugar technology more specifically cane sugar technology up to the production of raw sugar being intended originally for use in a post graduate university course the book assumes a knowledge of elementary chemical engineering as well as adequate knowledge of chemistry in the field of sugar manufacture itself the object of the book is to place more emphasis on aspects which are not adequately covered elsewhere in accordance with this objective attention has been concentrated mainly on processes and operation of the factory and description of equipment is made as brief as possible with numerous references to other books where more detail is available the emphasis on operation rather than equipment has also been prompted by observation of quite a few factories in different countries where good equipment is giving less than its proper performance due to inefficient operation and supervision the book is confined to the raw sugar process which has been the author s main interest refining is discussed only to the extent required to explain refiners requirements concerning

quality of raw sugar

with reference to india

this book provides a reference work on the design and operation of cane sugar manufacturing facilities it covers cane sugar decolorization filtration evaporation and crystallization centrifugation drying and packaging

sugar series vol 1 standard fabrication practices for cane sugar mills focuses on the processes methodologies and principles involved in standard fabrication practices for cane sugar mills the publication first tackles the storage and transportation of cane separation of juice from cane use and behavior of bagasse and juice weighing or measuring the book then elaborates on liming clarification carbonatation and sulfitation processes and special clarification agents and their history topics include phosphate magnesium compounds clay bauxite charcoal and carbon blankit lime kiln sulfur dioxide and sample calculation of a sulfur burner the text examines ion exchange evaporation evaporator cleaning measurement of heat transfer coefficient boiling house operation seeding and crystallization molasses centrifugation and crystallizers discussions focus on water circulation powdered sugar preparation crystallization procedure in practice soda and acid facilities cleaning shut down and variations on chemical cleaning the manuscript is a vital source of data for researchers wanting to study the standard fabrication practices for cane sugar mills

outlines the contribution of chemistry and renewable chemical or biological resources to the sustainability concept and potential resolution of the world s energy problems

the aim of this book is to present in a single volume an up to date account of the chemistry and chemical engineering which underlie the major areas of the chemical process industry this most recent edition includes several new chapters which comprise important threads in the industry s total fabric these new chapters cover waste minimization safety considerations in chemical plant design and operation emergency response planning and statistical applications in quality control and experimental planning together with the chapters on chemical industry economics and wastewater treatment they provide a unifying base on which the reader can most

effectively apply the information provided in the chapters which describe the various areas of the chemical process industries the ninth edition of this established reference work contains the contributions of some fifty experts from industry government and academe i have been humbled by the breadth and depth of their knowledge and expertise and by the willingness and enthusiasm with which they shared their knowledge and insights they have without exception been unstinting in their efforts to make their respective chapters as complete and informative as possible within the space available errors of omission duplication and shortcomings in organization are mine grateful acknowledgment is made to the editors of technical journals and publishing houses for permission to reproduce illustrations and other materials and to the many industrial concerns which contributed drawings and photographs comments and criticisms by readers will be welcome

the increasing importance of biomass as a renewable energy source has led to an acute need for reliable and detailed information on its assessment consumption and supply responding to this need and overcoming the lack of standardised measurement and accounting procedures this best selling handbook provides the reader with the skills to understand the biomass resource base the tools to assess the resource and explores the pros and cons of exploitation this new edition has been fully updated and revised with new chapters on sustainability methodologies topics covered include assessment methods for woody and herbaceous biomass biomass supply and consumption land use change remote sensing techniques food security sustainability and certification as well as vital policy issues the book includes international case studies on techniques from measuring tree volume to transporting biomass which help to illustrate step by step methods technical appendices offer a glossary of terms energy units and other valuable resource data

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