

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

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

much has happened in the last ten years in the cane sugar industry and especially in the utilization of its by products the serious inroads made in the sugar trade by the increasing consumption of high fructose corn syrup and the rapidly decreasing u s sugar imports have forced many cane sugar producing countries to reconsider their development policy and give more attention to improved efficiency and a more productive utilization of cane sugar by products changes in sugar technology have rendered possible great savings of bagasse to be used for energy generation or other activities the large scale production of ethanol from cane juice in brazil has indicated the possibility of countering any future petroleum shock the general improvement of biotechnology has ensured new avenues for upgrading by products of the sugar industry all these changes have clearly pointed to the need for a third edition of by products of the cane sugar industry a book which has been highly recommended and described as indispensable for sugar technologists chemists laboratories and sugar mills alike sugarland the general object and presentation of the new work follow the pattern set by preceding editions but with a large proportion of new text added to replace what was no longer up to date and representative of present technology all prices and production capacity data have been updated and the book now gives a more comprehensive and balanced view of by products utilization this new edition will be extremely useful to undergraduate level students in sugar engineering and agricultural chemistry it will also be of real value to factory managers chemists and engineers and generally

to industrialists looking for new developments

contributed papers

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