

Handbook Cane Sugar Engineering

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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.

Handbook of Cane Sugar Engineering | ScienceDirect

This handbook represents a tremendous undertaking... The book covers very completely all the equipment required in the factory producing raw cane sugar. Pumps and piping are not overlooked... there is much of value to engineers and technologists in cane refineries or beet factories. A substantial portion of the book deals with the milling of cane.

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Peter Rein's Cane Sugar Engineering is directed at active practitioners in the cane sugar and ethanol industry. This includes. mill engineers, process; production managers, design engineers and students. Size: 17 x 24 cm, 943 pages 450 figures and photographs, 205 tables, 4 color printing Hardcover, ISBN 978-3-87040-167-2

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HANDBOOK OF SUGAR REFINING

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,...

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.

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.

Delivery, unloading and handling of cane. Tramp iron separators. Combinations of cane preparators. Feeding of mills and conveying of bagasse. Pressures in milling. Mill capacity. Extraction. Milling control. Fine bagasse separators. Clarification with phosphoric acid. Juice heating. Evaporation. Crystallisation. Sugar. Molasses. Steam production and usage. Piping and fluid flow.

The first all-in-one reference for the beet-sugar industry Beet-Sugar Handbook is a practical and concise reference for technologists, chemists, farmers, and research personnel involved with the beet-sugar industry. It covers: * Basics of beet-sugar technology * Sugarbeet farming * Sugarbeet processing * Laboratory methods of analysis The book also includes technologies that improve the operation and profitability of the beet-sugar factories, such as: * Juice-softening process * Molasses-softening process * Molasses-desugaring process * Refining cane-raw sugar in a beet-sugar factory The book ends with a review of the following: * Environmental concerns of a beet-sugar factory * Basics of science related to sugar technology * Related tables for use in calculations Written in a conversational, engaging style, the book is userfriendly and practical in its presentation of relevant scientific and mathematical concepts for readers without a significant background in these areas. For ease of use, the book highlights important notes, defines technical terms, and presents units in both metric and British systems. Operating problem-solving related to all stations of sugarbeet processing, frequent practical examples, and given material/energy balances are other special features of this book.

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,

Manufacture and Refining of Raw Cane Sugar provides an operating manual to the workers in cane raw sugar factories and refineries. While there are many excellent reference and text books written by prominent authors, there is none that tell briefly to the superintendent of fabrication the best and simplest procedures in sugar production. This book is not meant to replace existing books treating sugar production, but rather to supplement them. All that is written in this book, each chapter of which deals with a separate station in a raw sugar factory and refinery, is also based on material already published and known to many in the sugar industry. The book is organized into two parts. Part I covers raw sugar and includes chapters on the harvesting and transportation of sugar cane to the factory; washing of sugar cane and juice extraction; weighing of cane juice; boiling of raw sugar massecuites; and storing and shipping bulk sugar. Part II on refining deals with processes such as clarification and treatment of refinery melt; filtration; and drying, cooling, conditioning, and bulk handling of refined sugar.

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.

The cane plant is probably the most efficient utilizer of sun energy for food production, and at the same time provides an equivalent quantity of biomass. The purpose of this book is to set down the unique position of sugar cane in the cogeneration field. Simultaneous with the development of distance-transmission of electricity, sugar cane processors started cogeneration, making use of the cane plant to supply the power for its own processing, and in recent years excess power for export. A broad view of cogeneration in the cane industry, covering the energy available in a crop, the technology of processing for optimum recovery of energy as well as sugar is presented here. The book describes the most practicable processes for recovering energy in the form of process steam and electricity. Cogeneration in the Cane Sugar Industry should be of interest to a broad spectrum, including government agencies, biomass interests, power generators, public utilities as well as sugar producers and technologist.

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