

## Cane Sugar Engineering

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Cane Sugar Engineering by Peter Rein. contains useful information of a practical nature for design and/or the operation of sugar mills. Sufficient background information and theory is given for an understanding of all the practical aspects. Sources of further information are given for more theoretical background.

~~Peter Rein - Cane Sugar Engineering - Bartens~~

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.

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~~Handbook of Cane Sugar Engineering | ScienceDirect~~

Peter Rein Cane Sugar Engineering 2nd edition 329.00 € Year of publication: 2017; ISBN: 978-3-87040-167-2 For further information, please visit the homepage of this product.”

~~Cane Sugar Engineering 2nd edition —Bartens~~

This book provides comprehensive information of a practical nature for the design and operation of cane sugar factories. Chapters cover specific aspects of cane sugar manufacturing and related processes, including sugarcane evaluation and payment, sugarcane supply and handling, sugarcane preparation, milling, sugarcane diffusion, mill and bagasse conveyors, raw juice handling, juice heating,...

~~Cane sugar engineering. —CAB Direct~~

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.

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~~Handbook of Cane Sugar Engineering by E. Hugot~~

The cogeneration system in sugar factories consists of four main processes: juice extraction, evaporation, steam generation, and turbogenerator. The juice extraction process converts sugar cane...

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Description. 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.

## ~~Handbook of Cane Sugar Engineering—1st Edition~~

This web site is filled with resources for the sugar engineer: Design guides, useful data, tables, formulae, software, news and links Rapid Design and Engineering Service What's New

## ~~Sugar Engineers~~

"We are #1 in Sugar Mill and Refinery Engineering and Management Service" Milestones.  
1990 : Sutech Engineering Co.,Ltd. was established; 1995 : Expansion of the manufacturing facility of the 1 st building to 9,600 m 2; 2008 : Certified with ISO 9001 : 2000; 2009 : Expanded to the 3 rd manufacturing building with total 25,200 m 2 working area ...

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~~Handbook of Cane Sugar Engineering - E. Hugot - Google Books~~

ISBN: 9783870401672 3870401672: OCLC Number: 1057402583: Description: 943 pages : color illustrations: Contents: 1. Sugarcane --2.Cane evaluation and payment --3.Supply and handling of sugarcane --4.Cane preparation --5.Milling --6.Cane diffusion --7.Mill and bagasse conveyors --8.Raw juice handling --9.Juice heating --10.Clarification --11.Filtration --12.. Evaporation --

~~Cane sugar engineering (Book, 2017) [WorldCat.org]~~

Cane sugar is produced by means of technologies rather similar to those used in a beet sugar plant and are also fully mastered by DSEC. DSEC will select the most appropriate methodology for extracting the juice from the cane after its first shredding.

~~Cane Sugar Factory | De Smet Engineers & Contractors~~

Handbook of Cane Sugar Engineering-E. Hugot 2014-05-12 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.

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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. 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.

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

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heating. Evaporation. Crystallisation. Sugar. Molasses. Steam production and usage. Piping and fluid flow.

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.

Sugar Series, Vol. 1: Standard Fabrication Practices for Cane Sugar Mills focuses on the



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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.

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

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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.

With reference to India.

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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