



Alfa Laval PANX range of decanters for crude palm oil

High-performance three-phase decanters centrifuges



Applications

Alfa Laval developed the PANX range of three-phase decanter centrifuges especially for processing crude palm oil, focusing on efficient, reliable separation of liquid, dry solids (cake) and oil for maximum oil recovery with minimum oil losses. The PANX range therefore includes decanters suitable for every size of palm oil mill, from 30 to approximately 90 tons of fresh fruit bunches (FFB) per hour, and for a variety of crude palm oil applications. These include:

- Combined clarification and purification of pressed oil as part of the Alfa Laval D3 PRO all-in-one process (no need for settling tanks and dilution water). This provides high oil recovery with low water consumption and effluent level.
- Sludge treatment after separation of diluted palm oil in settling tanks, using the three-phase units as an alternative to a nozzle separator. The decanter efficiently separates the slurry into oil, water and solid cake phases.
- Oil recovery from empty fruit bunch liquor (EFBL) immediately after pressing. The high-quality palm oil recovered after separation and removal of impurities with a decanter can be mixed with the freshly pressed oil.

Benefits

The design of Alfa Laval PANX decanter centrifuges provides multiple operating benefits:

- More cost-effective separation of palm oil
- Up to 30% savings on power consumption as a result of an innovative liquid outlet design
- Improved solids dryness, ensuring lower costs for drying or disposal
- Increased capacity within the same space (or less), for a smaller investment.

Design

The Alfa Laval PANX decanter centrifuge range is designed to ensure easy access, good reliability and low maintenance costs. The rotating assembly is held at both ends by bearings mounted on a welded box beam frame. It is enclosed in a casing comprising a semi-cylindrical hood and a bottom section welded to the frame. The cover is hinged to ensure easy access. The bottom section incorporates the solids discharge funnel and the liquid outlet.

Westfalia Decanter Manual

Brendan G. Carr



Westfalia Decanter Manual:

Decanter Centrifuge Handbook A. Records, K Sutherland, 2001-03-02 Scope of Publication A reference work for process designers and users of decanters this book aims to bridge the information gap in this field that between academic theory promoted in student textbooks and case study data in manufacturers sales literature Design It includes information on design and specification preparing the reader to select and correctly size equipment Purchase As a design or project engineer working with vendors to make final equipment selection this work provides the readers with the full facts before they start talking to product vendors Supply In an environment of industry consolidation the handbook allows you to track suppliers old and new providing a basis on which users can find the new relevant company for the parts service he she wishes to purchase Operation Once an equipment purchase is made the user needs to be made aware of how to optimally operate decanters The Decanter Centrifuge Handbook covers relevant process operating issues such as instrumentation and control and the use of flocculents

Process Design Manual for Dewatering Municipal Wastewater Sludges, 1982

Handbook of Methods and Instrumentation in Separation Science, 2009-11-11 Handbook of Methods and Instrumentation in Separation Science Volume 1 provides concise overviews and summaries of the main methods used for separation It is based on the Encyclopedia of Separation Science The handbook focuses on the principles of methods and instrumentation It provides general concepts concerning the subject matter it does not present specific procedures This volume discusses the separation processes including affinity methods analytical ultracentrifugation centrifugation chromatography and use of decanter centrifuge and dye Each methodology is defined and compared with other separation processes It also provides specific techniques principles and theories concerning each process Furthermore the handbook presents the applications benefits and validation of the processes described in this book This handbook is an excellent reference for biomedical researchers environmental and production chemists flavor and fragrance technologists food and beverage technologists academic and industrial librarians and nuclear researchers Students and novices will also find this handbook useful for practice and learning One stop source for information on separation methods General overviews for quick orientation Ease of use for finding results fast Expert coverage of major separation methods Coverage of techniques for all sizes of samples pico level to kilo level

Moody's International Manual, 1997

Functional Food Product Development Jim Smith, Edward

Charter, 2010-06-28 According to an August 2009 report from PricewaterhouseCoopers the United States market for functional foods in 2007 was US 27 billion Forecasts of growth range from between 8 5% and 20% per year or about four times that of the food industry in general Global demand by 2013 is expected to be about 100 billion With this demand for new products comes a demand for product development and supporting literature for that purpose There is a wealth of research and development in this area and great scope for commercialization and this book provides a much needed review of important opportunities for new products written by authors with in depth knowledge of as yet unfulfilled health related

needs This book addresses functional food product development from a number of perspectives the process itself health research that may provide opportunities idea creation regulation and processes and ingredients It also features case studies that illustrate real product development and commercialization histories Written for food scientists and technologists this book presents practical information for use in functional food product development It is an essential resource for practitioners in functional food companies and food technology centres and is also of interest to researchers and students of food science Key features A comprehensive review of the latest opportunities in this commercially important sector of the food industry Includes chapters highlighting functional food opportunities for specific health issues such as obesity immunity brain health heart disease and the development of children New technologies of relevance to functional foods are also addressed such as emulsion delivery systems and nanoencapsulation Includes chapters on product design and the use of functional ingredients such as antioxidants probiotics and prebiotics as well as functional ingredients from plant and dairy sources Specific examples of taking products to market are provided in the form of case studies e g microalgae functional ingredients Part of the Functional Food Science and Technology book series Series Editor Fereidoon Shahidi

Introduction to Biomass Energy Conversions Sergio Capareda, 2023-11-07 Introduction to Biomass Energy Conversions explores biomass energy conversions and characterization using practical examples and real world scenarios It begins with biomass resource estimation and extends to commercialization pathways for economical biomass conversion into high value materials chemicals and fuels With extended discussions of new sustainability issues in biofuels production such as carbon capture and sequestration the second edition has been updated with carbon footprint work life cycle analysis the growing circular economy and newer research directions of biomass resources such as graphene production from biochar This book covers thermo chemical conversion processes including torrefaction pyrolysis gasification and advanced gasification biomass liquefaction and combustion This book is intended for senior undergraduate students taking Renewable Energy Conversions Bio Energy Biomass Energy Introduction to Biofuels and Sustainability Engineering courses This book also features end of chapter problems exercises and case studies with a Solutions Manual available for instructors The eBook version includes the following digital enhancements Audio player Students can listen to an audio overview at the start of each chapter Pop ups Students can hover over important technical terms and keywords to instantly view definitions and actual images such as of biomass materials products equipment and pilot facilities Problem solving and objective type questions Over 450 questions are included Multiple choice quiz items with answers and solutions are provided at the end of each chapter These quizzes are carefully designed to satisfy all the key learning objectives for each chapter Indices for commonly used units and conversions and glossary of terms used in biomass conversion systems are provided to aid the students in problem solving Case studies Students will tackle case studies on bioenergy techno economics and feasibility particularly for biodiesel bioethanol and biogas productions as well as pyrolysis and gasification systems MS Excel templates are provided to

conduct economic sensitivity analysis for each project Included in the case study package are short videos to guide the students on how to navigate through each case study project **Wines & Vines** H. F. Stoll,1985 Issue no 12 A 1983 1990 is a Buyer s guide **Chilton's Food Engineering** ,1998 **Prepared Foods** ,1985 *2005 Thomas Register* ,2005

Processed Prepared Food ,1983 *Chemical Engineering Abstracts* ,1986 **Bioprocess Technology** Mr. Rohit Manglik,2024-01-12 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Solid-Liquid Separation Ladislav Svarovsky,2013-10-22 Solid Liquid Separation compiles a compact and coherent structure of contributions regarding solid liquid separation This book comprises chapters on basic fundamentals principles and equipment as well as on various important aspects of solid liquid separation such as filter aids washing and flocculation Other topics include characterization of particles suspended in liquids efficiency of separation of particles from fluids separation by centrifugal sedimentation pressure filtration cake dewatering and selection of solid liquid separation equipment This publication is useful to chemical engineers and process engineers particularly those in plant operation plant design or equipment testing and commissioning This selection can also be used as a textbook for teaching in undergraduate postgraduate and post experience courses *Encyclopedia of Dairy Sciences* ,2011-03-25 Dairy Science Four Volume Set includes the study of milk and milk derived food products examining the biological chemical physical and microbiological aspects of milk itself as well as the technological processing aspects of the transformation of milk into its various consumer products including beverages fermented products concentrated and dried products butter and ice cream This new edition includes information on the possible impact of genetic modification of dairy animals safety concerns of raw milk and raw milk products peptides in milk dairy based allergies packaging and shelf life and other topics of importance and interest to those in dairy research and industry Fully reviewed revised and updated with the latest developments in Dairy Science Full color inserts in each volume illustrate key concepts Extended index for easily locating information **The New Brewer** ,1997

International Biotechnology Directory J. Coombs,Y.R. Alston,2016-01-07 This directory provides the reader with quick access to information on more than 8000 companies research centres and academic institutions involved in new and established technologies This edition offers more than 600 all new organization listings including new listings in Europe

Operation of Municipal Wastewater Treatment Plants Water Environment Federation,2007-10-26 The bible of the water quality industry updated to reflect the latest trends technologies and regulations Operations of Municipal Wastewater Treatment Plants MOP 11 is the industry flagship book focusing on the operation and maintenance of municipal wastewater treatment plants Presented in three shrinkwrapped hardcover volumes this classic resource incorporates the experiences best practices and innovations from thousands of wastewater plants Taken as a whole these three volumes represent the

most complete package of information available to the wastewater treatment industry
Proceedings, International Wheat Quality Conference ,1997

Poultry Industry ,1972

Westfalia Decanter Manual: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. Westfalia Decanter Manual : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Westfalia Decanter Manual : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

http://www.frostbox.com/data/scholarship/index.jsp/the_professional_the_game_maker_series.pdf

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