

# Practical Guide to Vegetable Oil Processing

Second Edition

Monoj K. Gupta



  
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# Practical Guide To Vegetable Oil Processing

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Soccol**

## **Practical Guide To Vegetable Oil Processing:**

**Practical Guide to Vegetable Oil Processing** Monoj Gupta, 2017-02-16 Practical Guide to Vegetable Oil Processing Second Edition includes an up to date summary of the basic principles of edible oil refining processing and deodorizing serving as a hands on training manual for chemists engineers and managers new to the industry The 15 chapter book includes current information on the bleaching of green oils and coconut oil quality requirements for frying oil applications and more Written for the non chemist new to the industry the book makes it simple to apply these important concepts for the edible oil industry Provides insights to the challenges of bleaching very green oils Includes new deodorizer designs and performance measures Offers insights on frying oil quality management Simple and easy to read language **Practical Guide to Vegetable Oil Processing** Monoj K. Gupta, 2017 , **Introduction to Advanced Food Process Engineering** Jatindra Kumar Sahu, 2014-03-24 Food materials are processed prior to their consumption using different processing technologies that improve their shelf life and maintain their physicochemical biological and sensory qualities Introduction to Advanced Food Process Engineering provides a general reference on various aspects of processing packaging storage and quality control **Advances in Processing Technology** Gopal Kumar Sharma, Anil Dutt Semwal, Dev Kumar Yadav, 2021-11-29 The present book is an amalgamation of various topics which are quite relevant to academics pertaining to food science and technology Sincere attempts have been made to map consumer s perception in terms of sensory evaluation of processed foods and their role on quality determination To cover food safety the topic of advancement in the traceability and transparency of food supply chain is discussed in length Besides providing basic nutrition food has become an essential source of health promoting phyto ingredients too To take care of the concerned population therapeutic foods have also been discussed with their future trends Similarly recent trends in functional and Nutraceutical foods were also discussed in detail so as to give an exhaustive overlook of such subject matter To give impetus to the growing and aged generations the importance of the technology of weaning and geriatric foods is described in detail Bio preservation of various food products including fermentation had always attracted researchers for various reasons inclusive of its novel and chemical free approach of preservation which has been aptly covered under current expansions in microbiology for food preservation and also under progression in biotechnology and its application in food processing The cross linkage of advance technologies inclusive of nano science is elaborated as technological advances in nano science for specific food and nutrition delivery Oil and spice commerce are two giants pillars in food processing industries and readers would surely be wishing to understand the developments in the technology of oils refineries and condiments Smart and intelligent packing systems always extend an upper hand as far as shelf life monitoring of any processed food is concerned especially when these are import worthy products The science and technological approach of these packing innovations is also well covered Note T F does not sell or distribute the hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka This title is co published with NIPA

*Enzymes Applied in Biofuels Production: New Technologies and Innovation* Luciana Porto de Souza

Vandenbergh, Satinder Kaur Brar, Varsha Srivastava, Carlos Ricardo Soccol, 2025-10-30 *Enzymes Applied in Biofuels Production: New Technologies and Innovation* is a comprehensive exploration of the cutting edge role enzymes play in the evolving biofuels industry. This book opens with an insightful overview of the global energy crisis and the urgent need for renewable energy sources setting the stage for the crucial role of biofuels in achieving sustainable energy solutions. The book is organized in three parts. Part I provides a foundational understanding of enzymes detailing their biological functions, mechanisms of action and specificity. The book highlights the primary enzymes utilized in biofuel production such as cellulases, hemicellulases, amylases, ligninolytic enzymes and lipases and their natural sources from microorganisms to plants. It emphasizes the importance of these enzymes in breaking down biomass into fermentable sugars crucial for producing bioethanol and biodiesel. Part II is dedicated to innovative technologies in enzyme engineering and production. It covers advancements in genetic engineering, protein engineering and enzyme immobilization and nanotechnology techniques that have enhanced the efficiency, stability and cost effectiveness of enzymes in industrial biofuel applications. The integration of these technologies into biorefineries and the challenges associated with scaling up production processes are thoroughly examined. Part III delves into the market dynamics of biofuels analyzing current market trends, economic viability and policy frameworks that influence the adoption of enzymatic biofuel production. It discusses the competitive landscape highlighting key players and emerging startups driving innovation in the field. This book is an invaluable resource for researchers, industry professionals, policymakers and students offering a blend of scientific knowledge, practical insights and market analysis to foster innovation and growth in the biofuels sector. [Phospholipases in Physiology and Pathology](#) Sajal

Chakraborti, 2023-08-17 *Phospholipases in Physiology and Pathology* presents a comprehensive overview on the physiology and pathology of phospholipases. This seven volume set considers the biochemical and molecular mechanisms of normal and abnormal cell function upon dysregulation of phospholipases in different diseases. Volumes cover signal transduction mechanisms, implications in cancer, infectious diseases, neural diseases, cardiovascular diseases and other diseases, implications in inflammation, apoptosis, gene expression and non coding RNAs, the role of natural and synthetic compounds and stem cell therapies, nanotechnology based therapies and more. Together these volumes give researchers critical insight on the mechanistic and therapeutic aspects of phospholipases. Discusses the biochemical and molecular mechanisms of normal and abnormal cell function in different disease processes. Covers a wide range of basic and translational research appropriate for scientists engaged in studying the regulation of phospholipases from interdisciplinary perspectives. Features state of the art chapter contributions from international leaders in the field. **Green Sustainable Process for Chemical and Environmental Engineering and Science** Inamuddin, Rajender Boddula, Abdullah M. Asiri, 2020-11-19 *Green Sustainable Process for Chemical and Environmental Engineering and Science* Plant Derived Green Solvents Properties and

Applications provide a comprehensive review on the green solvents such as bio solvents terpenes neem alkyl phenols cyrene limenone and ethyl lactate etc which are derived from plant sources Chapters discuss introduction properties and advantages to the practical use of plant derived solvents Plants derived solvents are an excellent choice for real world applications to reduce the environmental and health safety considerations This book is the result of commitments by top researchers in the field of biosolvents from various backgrounds and fields of expertise This book is a one stop reference for plant solvents and overviews up to date accounts in the field of modern applications and the first book in this research community Introduces properties and application of green solvents from plants Gives an in depth accounts on plant derived solvents for various applications Outlines the benefits and possibilities of plant derived solvents vs conventional solvents Outlines eco friendly green solvents synthesis properties and applications Key references to obtain great results in plant derived green solvents

**Handbook of Industrial Chemistry and Biotechnology** James A. Kent,2013-01-13 Substantially revising and updating the classic reference in the field this handbook offers a valuable overview and myriad details on current chemical processes products and practices No other source offers as much data on the chemistry engineering economics and infrastructure of the industry The Handbook serves a spectrum of individuals from those who are directly involved in the chemical industry to others in related industries and activities It provides not only the underlying science and technology for important industry sectors but also broad coverage of critical supporting topics Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in chapters on Green Engineering and Chemistry specifically biomass conversion Practical Catalysis and Environmental Measurements as well as expanded treatment of Safety chemistry plant security and Emergency Preparedness Understanding these factors allows them to be part of the total process and helps achieve optimum results in for example process development review and modification Important topics in the energy field namely nuclear coal natural gas and petroleum are covered in individual chapters Other new chapters include energy conversion energy storage emerging nanoscience and technology Updated sections include more material on biomass conversion as well as three chapters covering biotechnology topics namely Industrial Biotechnology Industrial Enzymes and Industrial Production of Therapeutic Proteins

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