

Chemical Engineering Explained

Basic Concepts for Novices

David Shallcross University of Melbourne, Australia

Synopsis

Written for those less comfortable with science and mathematics, this text introduces the major chemical engineering topics for non-chemical engineers. With a focus on the practical rather than the theoretical, the reader will obtain a foundation in chemical engineering that can be applied directly to the workplace. By the end of this book, the user will be aware of the major considerations required to safely and efficiently design and operate a chemical processing facility. Case studies are included throughout, building a real-world connection. This book is ideal for professionals working with chemical engineers, and decision makers in chemical engineering industries.

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Brief Contents

- Introducing Processes
- Working With Units
- Chemistry Basics
- Material and Energy Balances
- Phase Behaviour
- Heat and Mass Transport
- Fluid Mechanics
- Reaction Engineering
- Separation Processes
- Processes Instrumentation and Control

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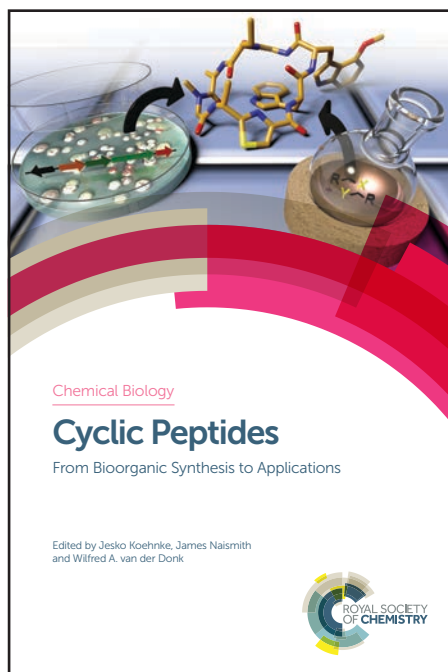
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Cyclic Peptides

From Bioorganic Synthesis to Applications

Jesko Koehnke Helmholtz Centre for Infection Research, Germany
James Naismith University of St Andrews, UK
Wilfred A van der Donk University of Illinois, USA

Synopsis

Cyclic peptides are increasingly being employed as a chemical tool in biology and drug discovery. This book provides the reader with a comprehensive overview of the synthesis and applications of these useful molecules. Following an introduction to cyclic peptides, biosynthetic and traditional chemical routes to cyclic peptides are reviewed, analysis of cyclic peptides is discussed and, finally, a number of chapters are dedicated to their applications. A timely collection of chapters by leading researchers in the field, this book will be an essential resource for students, researchers and industrialists in medicinal, bioorganic, natural product and analytical chemistry.

Brief Contents

- An Introduction to Cyclic Peptides
- The Biosynthesis of Cyclic Peptides – RiPPs – an Overview
- Thioesterase Domain-mediated Macrocyclization of Non-ribosomal Peptides
- The Biosynthetic Machinery and its Potential to Deliver Unnatural Cyclic Peptides
- Modulation of Protein–Protein Interactions Using Cyclic Peptides
- Biology and Synthesis of the Argyrins
- Peptide Cross-links Catalyzed by Metalloenzymes in Natural Product Biosynthesis

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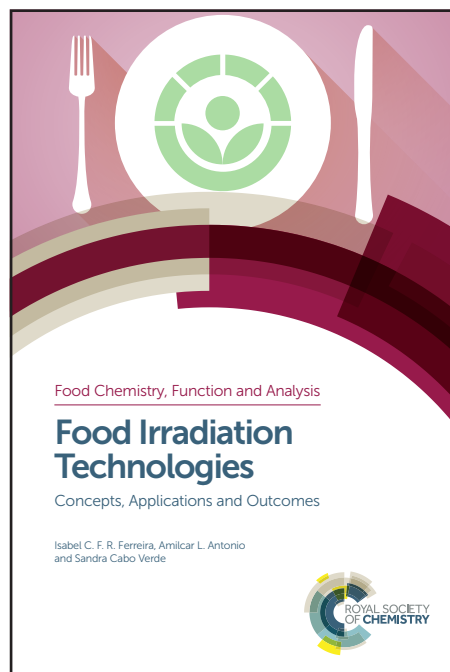
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Food Irradiation Technologies

Concepts, Applications and Outcomes

Isabel C F R Ferreira Instituto Politécnico de Bragança, Portugal
Amílcar L Antonio Polytechnic Institute of Bragança, Portugal
Sandra Cabo Verde Universidade de Lisboa, Portugal

Synopsis

Food preservation is being achieved using several technologies dependant on the specific purpose, the technical and economic feasibility and the level of consumer acceptance. Using irradiation is being recognised as a feasible alternative technology for food preservation which is more environmentally friendly than other current processes such as post-harvest chemical fumigation and it has less impact on thermally sensitive compounds than thermal decontamination technologies such as hot water or steam. The technology is no longer as hard to access and expensive and this book shows the various ways it can best be utilised providing a useful reference for those working or researching food preservation.

Brief Contents

- International Standards and Regulation on Food Irradiation
- Gamma Irradiation Plants
- Electron Beam and X-Ray Equipment for Food Irradiation Applications
- Dosimeters for Gamma, E-Beam and X-Ray food irradiation
- Food Phantoms and Absorbed Dose Simulation
- Software for food irradiation simulation and equipment validation
- Packaging for Food Irradiation
- Food Irradiation for Phytosanitary and Quarantine Treatment
- Food Irradiation as Sanitary Treatment
- Food Irradiation Chemistry

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