



Fundamentals of Food Engineering

D.G. Rao

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Food technology is the application of food science to the selection, preservation, processing, packaging, distribution and use of safe nutritious and wholesome food. The amalgamation of food technology with engineering operations has given birth to the discipline of food engineering.

Divided into four parts, the book begins with a brief introduction to food technology and its historical importance and development in the first part. The second part covers the basic principles, materials and energy balance concepts that prepare a solid ground for easy comprehension of the technology involved.

The third part, which deals with unit operations in food processing, is the core component of the book. It includes all the transport phenomena, mechanical operations, size reduction, grinding and milling. A separate chapter is devoted to microwave heating in view of its importance in food processing. Dehydration, solvent extraction, distillation, crystallization and mechanical operations have been discussed extensively. The fourth part deals with food industry management, and the peripheral and integrated food engineering operations.

The present textbook is designed for students of BTech (Food Technology/Food Engineering) and MSc (Food Technology). Besides, the students of Biochemical Engineering, Chemical Engineering and Biotechnology will find it immensely useful.

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