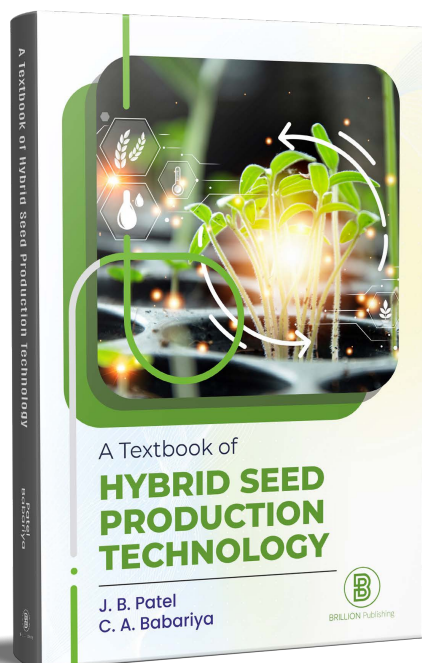




BRILLION Publishing



ISBN: 978-93-48542-14-4
e-ISBN: 978-93-48542-85-4
Pages: 388
2025

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Paperback ₹ 995/-

A Textbook of **HYBRID SEED PRODUCTION TECHNOLOGY**

A Textbook of Hybrid Seed Production Technology provides a clear, practical and scientifically grounded introduction to hybrid seed production across agricultural and horticultural crops. The book explains the genetic and physiological basis of heterosis, describes the principal types of hybrids, and presents detailed methods and field techniques for producing uniform, high-quality F_1 seed. Emphasis is placed on the selection and development of elite inbred parent lines, methods for ensuring controlled cross-pollination and managing environmental and agronomic factors that affect seed set and quality. Alongside theory, the text includes step-by-step protocols, case studies and hands-on exercises that reinforce best practices in breeding, seed certification, and hybrid seed production systems. The book is written for students, seed technologists, breeders and extension professionals, bridges fundamental genetics and practical field methods to support the development and reliable production of commercially viable hybrids.

The book masters the science and practice of producing uniform, high-performance hybrid seeds. This textbook covers heterosis, hybrid types, parent selection, controlled crossing techniques, agronomic management, seed certification and practical exercises, everything a breeder, seed technologist or advanced student needs to move from theory to field ready practice.

Hybrid seed production is central to modern crop improvement because it combines predictable parental phenotypes with heterosis to generate uniform, high performing F_1 crops. This textbook synthesizes genetic theory, breeding strategies and operational methods used to produce hybrid seed at scale. Topics includes the genetic architecture of heterosis, development and evaluation of inbred parents, types of male sterility and restoration systems, controlled pollination techniques for cross pollinated crops, flowering synchronization, quality assurance and seed certification standards and agronomic management for seed production. Practical exercises and case studies are provided to develop applied skills in planning, executing and evaluating hybrid seed production programs.

J. B. Patel | C. A. Babariya

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- Introduction to Heterosis and Hybrid Vigour
- Types of Hybrids
- Hybrid Seed Production Technology
- Techniques of Hybrid Seed Production in Major Agricultural Crops
- Techniques of Hybrid Seed Production in Major Horticultural Crops
- Practical Exercises of Hybrid Seed Production Technology

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