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TEXTBOOK ON HERBAL DRUG TECHNOLOGY

About the Book

Herbal Drug Technology focuses on the development, production, and utilization of herbal medicines derived from plants and plant extracts. These medicines, often referred to as herbal drugs or phytomedicines, have been used for centuries in traditional medicine systems worldwide. It plays a vital role in meeting the growing demand for natural and alternative healthcare options while ensuring the quality and safety of herbal products in today's pharmaceutical industry.

KEY FEATURES and aspects associated with Herbal Drug Technology:

- Identifying and selecting medicinal plants based on their historical use, phytochemical composition, and availability in specific regions. Developing efficient and environmentally friendly methods for extracting active compounds from herbs, including all techniques. Establishing standards for the quality and concentration of active ingredients in herbal products to ensure consistency and efficacy. Developing various dosage forms such as capsules, tablets, ointments, and syrups to make herbal medicines more accessible and convenient for patients.
- Implementing rigorous quality control procedures to test herbal products for contaminants, purity, and potency. This often involves using advanced analytical techniques. Assessing the safety of herbal drugs through toxicity studies, ensuring they have a low risk of adverse effects when used as directed. Adhering to regulations and guidelines specific to herbal medicines, this can vary by country, to ensure product legality and safety.
- Combining traditional wisdom and modern scientific research to optimize the use of herbal remedies and preserve indigenous knowledge. Implementing quality assurance systems and Good Manufacturing Practices (GMP) to maintain the highest standards in herbal drug production.

These features collectively contribute to the development, production, and responsible use of herbal medicines within the field of Herbal Drug Technology.

**Mrs. Poonam Nilesh Chougule | Dr. Nilesh B. Chougule
Dr. Firoj A. Tamboli | Dr. Abhinandan Ravsaheb Patil**

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