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[The Diabetes Textbook](#) Dec 19 2022 Diabetes has become a worldwide health problem, the global estimated prevalence approaches ten percent and the burden of this disease in terms of morbidity and mortality is unprecedented. The advances acquired through the knowledge of the mechanisms of the disease and the variety of therapeutic approaches contrast with the inability of private and public health systems in underdeveloped and even developed countries to achieve the goals of treatment. This paradox has been described in many sources: the surge of scientific advances contrast with an unprecedented amount of human suffering. Thus, a patient centered and an evidence based approach with the capacity to produce measurable clinical and economic outcomes is required. The purpose of this textbook is multiple: to offer a comprehensive resource covering all aspects of outpatient management; to address diabetes as a health problem from an epidemiological, economic and clinical perspective; to discuss the role of social determinants of health on the worldwide increase in diabetes; to highlight the challenges and obstacles in providing adequate care; and to outline a multidisciplinary approach to management in which medical visits retain their importance as part of a team comprising the patient, his or her family and a multidisciplinary group of health professionals who are able to move beyond the traditional approach of diabetes as a disease and greatly improve outcomes.

Current Aspects of Flavonoids: Their Role in Cancer Treatment Nov 18 2022 The book comprehensively introduces readers to various aspects of flavonoids, a category of natural metabolites that exhibits various pharmacological effects. It discusses their chemistry, absorption and metabolism, mechanisms of action and toxicology as well as future perspectives for clinical applications, and also provides detailed insights into their anti-cancer properties, since flavonoids are known to modulate tumor-associated intracellular as well as extracellular signaling pathways. The book also highlights the current research on the health effects of selected flavonoids, and their various roles in cancer prevention and treatment. Lastly, the book elucidates nanotechnology-mediated tools to enhance the bioavailability and solubility of flavonoids to improve their bioactivity and pharmacokinetic parameters.

[Immunology](#) Jan 20 2023 Immunology has emerged as a key component of the curricula of graduate and postgraduate courses in biotechnology, microbiology, biochemistry, bioinformatics, and other interdisciplinary fields of biology, including zoology, veterinary science, and medicine. As a basic introductory textbook on one of the fastest-moving and most challenging areas of immunological science, this book contains the most recent information about immunologic mechanisms and their importance, along with various molecular techniques employed in immunology. The short and concise text helps make the structures, processes, and interactions of the immune system easily comprehensible. The book includes chapters on immunoinformatics as well as the immune system of the brain, rarely found in any of the immunology books published so far. Many diverse and interesting aspects of the advances in immunology have also been covered, including tumor immunology and immunodeficiency disorders. The easy-to-understand concepts presented in the textbook make it an ideal companion for learners preparing for competitive and other examinations. Undergraduate, postgraduate, and PhD students, people from the industry and academia, and research scholars will immensely benefit from it.

Bioactive Natural Products for the Management of Cancer: from Bench to Bedside Oct 17 2022 This book illustrates the importance of the Natural Biometabolites, which offer a rich reservoir of candidate compounds for drug discovery in the battle against cancer. Recent research and development efforts concerning anti-cancer drugs derived from natural products have led to the identification of numerous candidate molecules that inhibit cancer cell proliferation and metastasis using a variety of mechanisms. Given its scope, the book offers a valuable resource for cancer biologists and general oncologists alike, while also benefitting research professionals in Science, Nursing, Medicine, Biochemistry, Genetics and Bioscience who wish to understand the fundamentals of prognosis and prediction in tumorigenesis. Moreover, the book provides an essential platform for understanding drug resistance mechanisms and combatting the growing menace of multidrug resistance.

[Accelerated Partial Breast Irradiation](#) Feb 21 2023 This text is a concise handbook designed to assist the clinician in the implementation of Accelerated Partial Breast Irradiation (APBI). It includes a review of the principles that underlie APBI, a practical and detailed description of each technique for APBI, a review of current clinical results of APBI, and a review of the incidence and management of treatment related complications. The book encompasses a number of different techniques and approaches that include brachytherapy, intraoperative, and external beam techniques. There is currently no single source that describes these techniques and their clinical implementation.

[Smart Delivery Systems](#) Sep 16 2022 Smart Delivery Systems: Solving Complex Vehicle Routing Problems examines both exact and approximate methods for delivering optimal solutions to rich vehicle routing problems, showing both the advantages and disadvantages of each approach. It shows how to apply machine learning and advanced data analysis techniques to improve routing systems, familiarizing readers with the concepts and technologies used in successfully implemented delivery systems. The book explains both the latest theoretical and practical advances in intelligent delivery and scheduling systems and presents practical applications for designing new algorithms for real-life scenarios. Emphasizes both sequential and parallel algorithms Uniquely combines methods and algorithms, real-life applications, and parallel computing Includes recommendations on how to choose between different methods for solving applications Provides learning aids, end of chapter references, bibliography, worked examples and exercises

[Afterlight](#) Aug 15 2022 Human society has more or less entirely broken down and millions lie dead of starvation and disease. There are only one or two beacon communities that have managed to fashion a new way of living. Jenny Sutherland runs one of these groups.