1. Record Nr. UNINA9910792587503321

Autore	Combs Gerald F
Titolo	The vitamins [[electronic resource]] : fundamental aspects in nutrition and health / / Gerald F. Combs, Jr
Pubbl/distr/stampa	Amsterdam ; ; Boston, : Elsevier Academic Press, c2008
ISBN	1-282-54062-9 9786612540622 0-08-056130-6
Edizione	[3rd ed.]
Descrizione fisica	1 online resource (603 p.)
Disciplina	612.3/99
Soggetti	Vitamins Nutrition
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; The Vitamins; Copyright Page; Dedication Page; Contents; Preface; Preface to the Second Edition; Preface to the First Edition; How to Use This Book; Part I: Perspectives on the Vitamins in Nutrition; Chapter I: What is a Vitamin?; I. Thinking about Vitamins; II. Vitamin: A Revolutionary Concept; III. An Operating Definition of a Vitamin; IV. The Recognized Vitamins; Study Questions; Chapter 2: Discovery of the Vitamins; I. The Emergence of Nutrition as a Science; II. The Process of Discovery in Nutritional Science; III. The Empirical Phase of Vitamin Discovery IV. The Experimental Phase of Vitamin DiscoveryV. The Vitamine Theory; VI. Elucidation of the Vitamins; VII. Vitamin Terminology; VIII. Other Factors Sometimes Called Vitamins; IX. The Modern History of the Vitamins; Study Questions and Exercises; Recommended Reading; Chapter 3: Chemical and Physiological Properties of the Vitamins; I. Chemical and Physical Properties of the Vitamins; II. Vitamin A; III. Vitamin D; IV. Vitamin E; V. Vitamin K; VI. Vitamin C; VII. Thiamin; VIII. Riboflavin; IX. Niacin; X. Vitamin B6; XI. Biotin; XII. Pantothenic Acid; XIII. Folate; XIV. Vitamin B12 XV. General Properties of the VitaminsXVI. Physiological Utilization of the Vitamins; XVII. Metabolism of the Vitamins; XVIII. Metabolic Functions of the Vitamins; Study Questions and Exercises;

Recommended Reading; Chapter 4: Vitamin Deficiency; I. The Concept of Vitamin Deficiency; II. The Many Causes of Vitamin Deficiencies; III. Clinical Manifestations of Vitamin Deficiencies; IV. Vitamin Deficiency Diseases: Manifestations of Biochemical Lesions; Study Questions and Exercises; Recommended Reading; Part II: Considering the Individual Vitamins; Chapter 5: Vitamin A
I. Significance of Vitamin AII. Sources of Vitamin A; III. Absorption of Vitamin A; IV. Transport of Vitamin A; V. Metabolism of Vitamin A; VI. Excretion of Vitamin A; VII. Metabolic Functions of Vitamin A; VIII. Vitamin A Deficiency; IX. Vitamin A Toxicity; X. Case Studies; Study Questions and Exercises; Recommended Reading; Chapter 6: Vitamin D; I. Significance of Vitamin D; II. Sources of Vitamin D; III. Enteric Absorption of Vitamin D; IV. Transport of Vitamin D; V. Metabolism of Vitamin D; VI. Metabolic Functions of Vitamin D; VII. Vitamin D Deficiency; VIII. Vitamin D Toxicity
IX. Case StudiesStudy Questions and Exercises; Recommended Reading; Chapter 7: Vitamin E; I. The Significance of Vitamin E; II. Sources of Vitamin E; III. Absorption of Vitamin E; IV. Transport of Vitamin E; V. Metabolism of Vitamin E; VI. Metabolic Functions of Vitamin E; VII. Vitamin K Deficiency; VIII. Pharmacologic Uses of Vitamin E; IX. Vitamin K Toxicity; X. Case Studies; Study Questions and Exercises; Recommended Reading; Chapter 8: Vitamin K; I. The Significance of Vitamin K; II. Sources of Vitamin K; III. Absorption of Vitamin K; IV. Transport of Vitamin K; V. Metabolism of Vitamin K
VI. Metabolic Functions of Vitamin K

Sommario/riassunto

The third edition of this bestselling text will again provide the latest coverage of the biochemistry and physiology of vitamins and vitamin-like substances. Extensively revised and expanded on the basis of recent research findings with enlarged coverage of health effects of vitamin-like factors, it is ideally suited for students and an important reference for anyone interested in nutrition, food science, animal science or endocrinology. It contains a cohesive and well-organized presentation of each of the vitamins, as well as the history of their discoveries and current information about thei