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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 A; II. 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 Studies; Study 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 their
