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Nota di contenuto	Vitamins in Animal and Human Nutrition; CONTENTS; Preface; 1. Introduction and Historical Considerations; Definition of Vitamins; Classification of Vitamins; Vitamin Nomenclature; Vitamin Requirements; Vitamin Occurrence; History of the Vitamins; References; 2. Vitamin A; Introduction; History; Chemical Structure and Properties; Analytical Procedures; Metabolism; Functions; Requirements; Natural Sources; Deficiency; Supplementation; -Carotene Function Independent of Vitamin A; Toxicity; References; 3. Vitamin D; Introduction; History; Chemical Structure, Properties, and Antagonists Analytical Procedures; Metabolism; Functions; Requirements; Natural Sources; Deficiency; Supplementation; Toxicity; References; 4. Vitamin E; Introduction; History; Chemical Structure and Properties; Analytical Procedures; Metabolism; Functions; Requirements; Natural Sources; Deficiency; Supplementation; Toxicity; References; 5. Vitamin K; Introduction; History; Chemical Structure, Properties, and Antagonists; Analytical Procedures; Metabolism; Functions; Requirements; Natural Sources; Deficiency; Supplementation; Toxicity; References; 6. Thiamin;

Introduction; History

Chemical Structure, Properties, and Antagonists; Analytical Procedures; Metabolism; Functions; Requirements; Natural Sources; Deficiency; Supplementation; Toxicity; References; 7. Riboflavin; Introduction; History; Chemical Structure, Properties, and Antagonists; Analytical Procedures; Metabolism; Functions; Requirements; Natural Sources; Deficiency; Supplementation; Toxicity; References; 8. Niacin; Introduction; History; Chemical Structure, Properties, and Antagonists; Analytical Procedures; Metabolism; Functions; Requirements; Natural Sources; Deficiency; Supplementation; Toxicity; References; 9. Vitamin B6; Introduction; History; Chemical Structure, Properties, and Antagonists; Analytical Procedures; Metabolism; Functions; Requirements; Natural Sources; Deficiency; Supplementation; Toxicity; References; 10. Pantothenic Acid; Introduction; History; Chemical Structure, Properties, and Antagonists; Analytical Procedures; Metabolism; Functions; Requirements; Natural Sources; Deficiency; Supplementation; Toxicity; References; 11. Biotin; Introduction; History; Chemical Structure, Properties, and Antagonists; Analytical Procedures; Metabolism; Functions; Requirements; Natural Sources; Deficiency; Supplementation; Toxicity; References; 12. Folacin; Introduction; History; Chemical Structure, Properties, and Antagonists; Analytical Procedures; Metabolism; Functions; Requirements; Natural Sources; Deficiency; Supplementation; Toxicity; References; 13. Vitamin B12; Introduction; History; Chemical Structure, Properties, and Antagonists; Analytical Procedures; Metabolism; Functions; Requirements; Natural Sources; Deficiency; Supplementation; Toxicity; References; 14. Choline; Introduction; History; Chemical Structure and Properties; Analytical Procedures; Metabolism; Functions; Requirements

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## Sommario/riassunto

Vitamins in Animal and Human Nutrition contains concise, up-to-date information on vitamin nutrition for both animals and humans. The author defines these nutrients and describes their fascinating discovery, history and relationship to various diseases and deficiencies. Discussion of vitamins also includes their chemical structure, properties and antagonists; analytical procedures; metabolism; functions; requirements; sources; supplementation and toxicity. Vitamin-like substances, essential fatty acids and vitamin supplementation considerations are also examined.

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