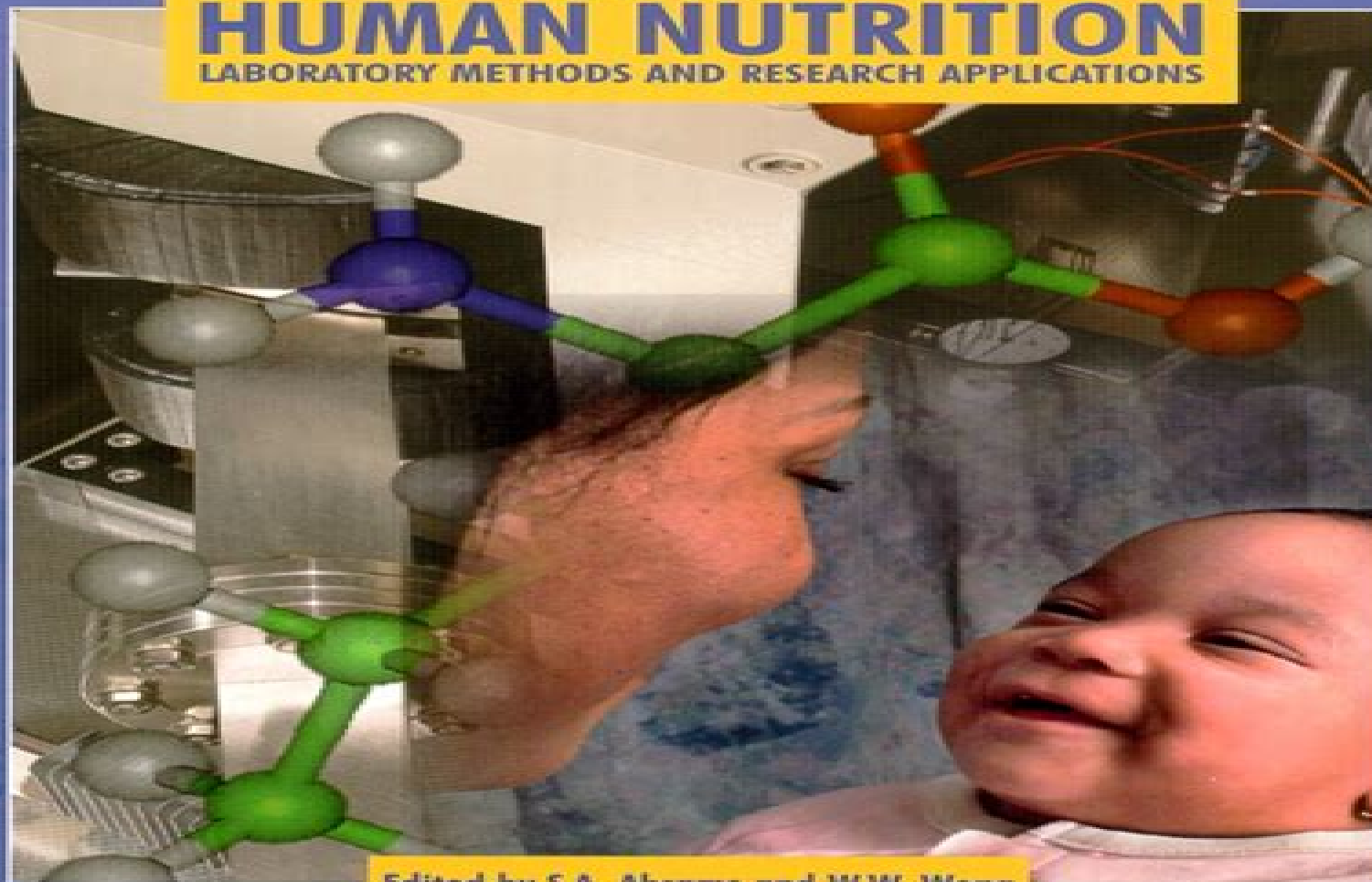


STABLE ISOTOPES IN HUMAN NUTRITION

LABORATORY METHODS AND RESEARCH APPLICATIONS



Edited by S.A. Abrams and W.W. Wong



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Stable Isotopes In Human Nutrition

United States. Dept. of Agriculture



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Moffat, Tracy Prowse, 2010-12-01 There are not many areas that are more rooted in both the biological and social cultural aspects of humankind than diet and nutrition Throughout human history nutrition has been shaped by political economic and cultural forces and in turn access to food and nutrition has altered the course and direction of human societies Using a biocultural approach the contributors to this volume investigate the ways in which food is both an essential resource fundamental to human health and an expression of human culture and society The chapters deal with aspects of diet and human nutrition through space and time and span prehistoric historic and contemporary societies spread over various geographical regions including Europe North America Africa and Asia to highlight how biology and culture are inextricably linked

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Vitamin and Mineral Requirements in Human Nutrition World Health Organization, FAO, 2004 In the past 20 years micronutrients have assumed great public health importance and a considerable amount of research has led to increasing knowledge of their physiological role Because it is a rapidly developing field the WHO and FAO convened an Expert Consultation to evaluate the current state of knowledge It had three main tasks to review the full scope of vitamin and minerals requirements to draft and adopt a report which would provide recommended nutrient intakes for vitamins A C D E and K the B vitamins calcium iron magnesium zinc selenium and iodine to identify key issues for future research and make preliminary recommendations for the handbook This report contains the outcome of the Consultation combined with up to

date evidence that has since become available Iron Physiology and Pathophysiology in Humans Gregory J. Anderson, Gordon D. McLaren, 2012-01-14 Iron Physiology and Pathophysiology in Humans provides health professionals in many areas of research and practice with the most up to date and well referenced volume on the importance of iron as a nutrient and its role in health and disease This important new volume is the benchmark in the complex area of interrelationships between the essentiality of iron its functions throughout the body including its critical role in erythropoiesis the biochemistry and clinical relevance of iron containing enzymes and other molecules involved in iron absorption transport and metabolism the importance of optimal iron status on immune function and links between iron and the liver heart brain and other organs Moreover the interactions between genetic and environmental factors and the numerous co morbidities seen with both iron deficiency and iron overload in at risk populations are clearly delineated so that students as well as practitioners can better understand the complexities of these interactions Key features of the volume include an in depth index and recommendations and practice guidelines are included in relevant chapters The volume contains more than 100 detailed tables and informative figures and up to date references that provide the reader with excellent sources of information about the critical role of iron nutrition optimal iron status and the adverse clinical consequences of altered iron homeostasis Iron Physiology and Pathophysiology in Humans is an excellent new text as well as the most authoritative resource in the field **Advances in Isotope Methods for the Analysis of Trace Elements in Man** Malcolm Jackson, Nicola Lowe, 2000-11-29 There is increasing evidence that even minute amounts of trace elements can have profound effects on the human body Advances in Isotope Methods for the Analysis of Trace Elements in Man describes new methods that are being developed to understand normal and abnormal trace element nutrition and metabolism This book includes a wealth of pr **Mathematical Modeling in Nutrition and the Health Sciences** Janet A. Novotny, Michael H. Green, Ray C. Boston, 2012-12-06 This volume is the proceedings of the 7th Mathematical Modeling in Experimental Nutrition Conference held at Penn State University July 29 until August 1 2000 The book addresses the determination of optimal intakes of nutrients and food components to provide lifelong health and reduce incidence of disease Mathematical modelling provides a means of rigorously defining the functions of a system and using a variety of conditions to stimulate responses This volume presents the newest advances in modelling and related experimental techniques required to meet the new challenges currently facing nutrition and biological science

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