Contents

The Biochemistry and Physiology of Protein and Amino Acid Metabolism, with Reference to Protein Nutrition	1
and Leticia Castillo	
Isotopic Methods for Studying Protein Turnover Peter J. Garlick and Margaret A. McNurlan	29
Interrelations between the Degradation Rates of RNA and Protein and the Energy Turnover Rates	49
Digestibility and Absorption of Protein in Infants	53
International Recommendations on Protein Intakes in Infancy: Some Points for Discussion	67
Protein Content of Human Milk, from Colostrum to Mature Milk Niels C. R. Räihä	87
Nutritional Importance of Non-protein Nitrogen Bo Lönnerdal	105
Qualitative Aspects of Protein in Human Milk and Formula: Amino Acid Pattern	121
Protein Requirements of Low Birthweight, Very Low Birthweight, and Small for Gestational Age Infants	133
Protein Requirement of Healthy Term Infants during the First Four Months of Life	153

CONTENTS	

ix

Protein Needs during Weaning	165
Essential and Non-essential Amino Acids in Neonatal Nutrition David Keith Rassin	183
Significance of Nucleic Acids, Nucleotides, and Related Compounds in Infant Nutrition	197
Inborn Errors of Metabolism: A Model for the Evaluation of Essential Amino Acid Requirements	211
Role of Tumor Necrosis Factor in Protein Metabolism	229
Subject Index	243