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Nota di contenuto	Nutrient Requirements of Poultry -- Copyright -- Preface -- Contents -- Overview -- 1 Components of Poultry Diets -- ENERGY -- Energy Terminology -- Disposition of Dietary Energy -- Procedures for Determining Metabolizable Energy -- Estimation from Proximate Composition -- Setting Dietary Levels -- Energy Values in the Nutrient Requirement Tables -- CARBOHYDRATES -- PROTEINS AND AMINO ACIDS -- Variations in Requirements -- Specific Amino Acid Relationships -- Methionine Plus Cystine -- Phenylalanine Plus Tyrosine -- Glycine Plus Serine -- Imbalance, Antagonism, And Toxicity -- Amino Acid Conversion to Vitamins -- Amino Acid Availability -- FATS -- Sources -- Metabolizable Energy Value -- Blending Fats -- Extra Caloric Effect -- Improved Net Energy of Production -- Fatty Acid Composition -- Essential Fatty Acids -- MINERAL -- VITAMINS -- WATER -- XANTHOPHYLLS -- UNIDENTIFIED GROWTH FACTORS -- ANTIMICROBIALS -- 2 Nutrient Requirements of Chickens -- LEGHORN-TYPE CHICKENS -- Starting and Growing Pullets -- Protein And Energy -- Minerals And Vitamins -- Pelay Period -- Hens in Egg Production -- Body Maintenance Needs -- Production Needs -- Phase Feeding -- Egg Weight -- Minerals And Vitamins -- Brown-Egg-Laying Layers -- Egg-Type Breeders -- Molting Hens -- MEAT-TYPE CHICKENS

-- Starting and Growing Market Broilers -- Amino Acids -- Methionine plus Cystine -- Arginine -- Lysine -- Tryptophan -- Threonine -- Isoleucine, Leucine, Valine, Phenylalanine, Phenylalanine plus Tyrosine, Glycine plus Serine, Histid ... -- Minerals -- Calcium and Phosphorus -- Potassium, Sodium, and Chlorine -- Magnesium -- Iron and Copper -- Manganese -- Zinc -- Iodine -- Selenium -- Vitamins -- Vitamin A -- Vitamin D -- Vitamin E -- Vitamin K -- Riboflavin -- Pantothenic Acid -- Niacin -- Vitamin B12 -- Choline -- Biotin -- Folic Acid -- Thiamin -- Pyridoxine. Essential Fatty Acid -- Linoleic Acid -- Broiler Breeder Pullets and Hens -- Protein And Amino Acids -- Energy -- Minerals And Vitamins -- Calcium -- Phosphorus -- Sodium -- Chlorine -- Biotin -- Broiler Breeder Males -- Protein -- Energy -- Minerals -- Phosphorus -- 3 Nutrient Requirements of Turkeys -- STARTING AND GROWING TURKEYS -- Energy -- Protein And Amino Acids -- Minerals -- Vitamins -- TURKEY BREEDERS -- 4 Nutrient Requirements of Geese -- 5 Nutrient Requirements of Ducks -- 6 Nutrient Requirements of Ring-Necked Pheasants, Japanese Quail, and Bobwhite Quail -- RING-NECKED PHEASANTS -- JAPANESE QUAIL -- BOBWHITE QUAIL -- 7 Signs of Nutritional Deficiencies in Chickens and Turkeys -- PROTEIN AND AMINO ACID DEFICIENCIES -- VITAMIN DEFICIENCIES -- Vitamin A -- Vitamin D -- Vitamin E -- Vitamin K -- Thiamin (Vitamin B1) -- Riboflavin (Vitamin B2) -- Niacin -- Biotin -- Pantothenic Acid -- Pyridoxine (Vitamin B6) -- Folic acid -- Vitamin B12 (Cobalamin) -- Choline -- MINERAL DEFICIENCIES -- Calcium and Phosphorus -- Magnesium -- Manganese -- Potassium, Sodium, and Chlorine -- Iodine -- Copper -- Iron -- Selenium -- Zinc -- 8 Toxicity of Certain Inorganic Elements -- 9 Composition of Feedstuffs Used in Poultry Diets -- CEREAL GRAINS -- PROTEIN SUPPLEMENTS -- Cottonseed Meal -- Rapeseed Meals -- Soybean Meal -- Animal Protein Sources -- ESTIMATING THE AMINO ACID COMPOSITION OF FEEDSTUFFS -- Amino Acid Supplements -- CHARACTERISTICS OF DIETARY FATS -- MACROMINERAL SUPPLEMENTS -- MYCOTOXINS -- 10 Standard Reference Diets for Chicks -- Appendixes -- References -- Authors -- Index -- Other Titles in the Series -- Related Publications.

Sommario/riassunto

This classic reference for poultry nutrition has been updated for the first time since 1984. The chapter on general considerations concerning individual nutrients and water has been greatly expanded and includes, for the first time, equations for predicting the energy value of individual feed ingredients from their proximate composition. This volume includes the latest information on the nutrient requirements of meat- and egg-type chickens, incorporating data on brown-egg strains, turkeys, geese, ducks, pheasants, Japanese quail, and Bobwhite quail. This publication also contains new appendix tables that document in detail the scientific information used to derive the nutrient requirements appearing in the summary tables for each species of bird.