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Edizione	[7th rev. ed.]
Descrizione fisica	1 online resource (xiv, 242 pages) : illustrations
Collana	Nutrient requirements of domestic animals
Disciplina	636.2/13
Soggetti	Beef cattle - Feeding and feeds
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Title; Copyright; Preface; Acknowledgments; Contents; Tables and Figures; Overview; 1 Energy; ENERGY UNITS; Expressing Energy Values of Feeds; REQUIREMENTS FOR ENERGY; Measurement of Maintenance Requirements; Variation in Energy Requirements for Maintenance; BREED DIFFERENCES IN MAINTENANCE; SEX DIFFERENCES IN MAINTENANCE; AGE EFFECTS ON MAINTENANCE; SEASONAL EFFECTS ON MAINTENANCE; TEMPERATURE EFFECTS ON MAINTENANCE; EFFECTS OF PHYSIOLOGICAL STATE ON MAINTENANCE; EFFECTS OF ACTIVITY ON MAINTENANCE; Effects of Previous Nutrition/Compensatory Gain; Use of Energy from Weight Loss; REFERENCES 2 Protein; MICROBIAL PROTEIN SYNTHESIS; CONVERSION OF MP TO NP; Validation; REFERENCES; 3 Growth and Body Reserves; ENERGY AND PROTEIN REQUIREMENTS FOR GROWING CATTLE; Anabolic Agents; Ionophore Effects; Previous Plane of Nutrition Effects; Effects of Special Dietary Factors; Unique Breed Effects; Validation of Energy and Protein Requirement System; AMINO ACID REQUIREMENTS; ENERGY AND PROTEIN REQUIREMENTS FOR BREEDING HERD REPLACEMENTS; ENERGY AND PROTEIN RESERVES OF BEEF COWS; REFERENCES; 4 Reproduction;

GESTATION; Effects of Temperature; Factors Affecting Fetal Growth
The Role of the Placenta; Energy Requirements; Protein Requirements;
LACTATION; BREEDING PERFORMANCE; Heifer Development; EFFECTS
OF FEEDING; EFFECTS OF MATURITY; Weight and Condition Changes in
Reproducing Females; Males; REFERENCES; 5 Minerals;
MACROMINERALS; Calcium; CALCIUM REQUIREMENTS; FACTORS
AFFECTING CALCIUM REQUIREMENTS; SIGNS OF CALCIUM DEFICIENCY;
CALCIUM SOURCES; SIGNS OF CALCIUM TOXICITY; Magnesium;
MAGNESIUM REQUIREMENTS; SIGNS OF MAGNESIUM DEFICIENCY;
FACTORS AFFECTING MAGNESIUM REQUIREMENTS; MAGNESIUM
SOURCES; SIGNS OF MAGNESIUM TOXICITY; Phosphorus; PHOSPHORUS
REQUIREMENTS
FACTORS AFFECTING PHOSPHORUS REQUIREMENTS; SIGNS OF
PHOSPHORUS DEFICIENCY; PHOSPHORUS SOURCES; Potassium;
POTASSIUM REQUIREMENTS; SIGNS OF POTASSIUM DEFICIENCY;
POTASSIUM SOURCES; SIGNS OF POTASSIUM TOXICITY; Sodium and
Chlorine; SODIUM AND CHLORINE REQUIREMENTS; SIGNS OF SODIUM
DEFICIENCY; SODIUM AND CHLORINE SOURCES; SIGNS OF SODIUM
TOXICITY; Sulfur; SULFUR REQUIREMENTS; SIGNS OF SULFUR
DEFICIENCY; FACTORS AFFECTING SULFUR REQUIREMENTS; SULFUR
SOURCES; SIGNS OF SULFUR TOXICITY; MICROMINERALS; Chromium;
Cobalt; COBALT REQUIREMENTS; SIGNS OF COBALT DEFICIENCY
FACTORS AFFECTING COBALT REQUIREMENTS; SIGNS OF COBALT
TOXICITY; Copper; COPPER REQUIREMENTS; FACTORS AFFECTING
COPPER REQUIREMENTS; SIGNS OF COPPER DEFICIENCY; COPPER
SOURCES; SIGNS OF COPPER TOXICITY; Iodine; IODINE REQUIREMENTS;
FACTORS AFFECTING IODINE REQUIREMENTS; SIGNS OF IODINE
DEFICIENCY; IODINE SOURCES; SIGNS OF IODINE TOXICITY; IRON
REQUIREMENTS; SIGNS OF IRON DEFICIENCY; IRON SOURCES; SIGNS OF
IRON TOXICITY; Manganese; MANGANESE REQUIREMENTS; SIGNS OF
MANGANESE DEFICIENCY; FACTORS AFFECTING MANGANESE
REQUIREMENTS; MANGANESE SOURCES; SIGNS OF MANGANESE
TOXICITY; Molybdenum; FACTORS AFFECTING MOLYBDENUM
UTILIZATION

Sommario/riassunto

As members of the public becomes more conscious of the food they consume and its content, higher standards are expected in the preparation of such food. The updated seventh edition of Nutrient Requirements of Beef Cattle explores the impact of cattle's biological, production, and environmental diversities, as well as variations on nutrient utilization and requirements. More enhanced than previous editions, this edition expands on the descriptions of cattle and their nutritional requirements taking management and environmental conditions into consideration. The book clearly communicates the current state of beef cattle nutrient requirements and animal variation by visually presenting related data via computer-generated models. Nutrient Requirements of Beef Cattle expounds on the effects of beef cattle body condition on the state of compensatory growth, takes an in-depth look at the variations in cattle type, and documents the important effects of the environment and stress on food intake. This volume also uses new data on the development of a fetus during pregnancy to prescribe nutrient requirements of gestating cattle more precisely. By focusing on factors such as product quality and environmental awareness, Nutrient Requirements of Beef Cattle presents standards and advisements for acceptable nutrients in a complete and conventional manner that promotes a more practical understanding and application.
