

1. Record Nr.	UNINA9910479978703321
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Titolo	Energy Nutrition in Ruminants [[electronic resource] /] / by M. Ryle, E. R. Ørskov
Pubbl/distr/stampa	Dordrecht : , : Springer Netherlands, , 1990
ISBN	94-009-0751-6
Descrizione fisica	1 online resource (VIII, 150 p.)
Disciplina	500
Soggetti	Science Science, general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Nutrient supply to the newborn ruminant -- 2. Energy nutrition of rumen micro-organisms -- 3. Manipulation of rumen fermentation and associative effects -- 4. Host animal control of microbial fermentation and host animal digestion -- 5. Absorption of nutrients -- 6. Energy metabolism of the host animal -- 7. Utilization of the energy of absorbed nutrients -- 8. Feed quality and feed intake -- 9. Feed evaluation, past and present -- 10. Towards future feed evaluation systems.
Sommario/riassunto	This book is intended to be a companion volume to 'Protein Nutrition in Ruminants' (1982, Academic Press), which emphasized both the role of proteins and new systems for their evaluation. Here the focus is on energy-yielding nutrients and problems involved in evaluating them. Nonetheless in both volumes there is explicit recognition of the interdependence of energy and protein nutrition. I have not attempted to review comprehensively all the literature relating to ruminant energy nutrition and must apologize to colleagues whose work is not fully reported. Where possible tables and figures are taken from the studies of our group at the Rowett Research Institute since, if for no other reason, I am most familiar with these data. I have first considered the nutrition of the newborn and have stressed the role of behaviour 'in determining whether nutrients enter or bypass the rumen. The development of the rumen, the of anaerobic fermentation and the roles of various principles . species of rumen bacteria, protozoa and fungi in

relation to different substrates, are summarized. This is followed by accounts of the factors affecting the utilization of different substrates and the v vi Preface absorption and metabolism of the end-products of fermentation and digestion, together with estimates of digestive capacity in various segments of the gut. The ruminant's requirements for energy-yielding nutrients is considered in relation to the performance of various activities and to environmental conditions, particular attention being paid to the requirement for glucose precursors.
