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Nota di contenuto	Rodent Pests and their Control, 2nd Edition; Copyright; Contents; Contributors; Preface; 1: The Natural History of Rodents: Preadaptations to Pestilence; Introduction; Population Processes and Demography; Social Organization and Behaviour; Foraging; The Ecological Ethic; References; 2: Commensal Rodents; Introduction and Economic Importance; Cosmopolitan Pests; The brown, common or Norway rat (<i>Rattus norvegicus</i>); The roof, ship, house or black rat (<i>Rattus rattus</i>); The house mouse (<i>Mus spp.</i>); Locally Important Commensal Rodent Species; The multimammate rat (<i>Mastomys Praomys</i>) (<i>natalensis</i>) The lesser bandicoot rat (<i>Bandicota bengalensis</i>) The Polynesian rat or Burmese house rat (<i>Rattus exulans</i>); References; 3: Rodents in Agriculture and Forestry; Introduction; Species Involved; Incidence of Rodent Problems; Temperate Regions - Pasture and Field Crops; Northern Europe; Southern Europe and Eurasia; China; North America; Australia; Temperate Regions - Forestry and Orchards; Europe and Asia; North America; Other regions; Subtropical, Highland Tropical and Arid Regions - Grassland and Field Crops; Europe, North Africa and Asia; Sub-Saharan Africa; America

Subtropical, Highland Tropical and Arid Regions - Forestry and OrchardsBamboo Forests in Tropical Mountainous Regions; Lowland Tropics; Rice; Importance in South-east Asia; Rodent species and occurrence; Environmental suitability and causation of outbreaks; Review of crop losses; Relationship of damage to production; Objective assessment of loss; Rat population size; Ecological basis of control; Other regions; Sugarcane; Oil palm; Coconuts; Cocoa; Other tropical crops; Synthesis; Scope; Essential population ecology; Ecology of incidence and control; Biological control; Economics

Practicalities of implementation in the fieldCompetence of personnel; Conclusion; References; 4: Rodents as Carriers of Disease; Introduction; Synanthropic Rodents, Zoonoses and Disease Transmission; Ectoparasites and Disease; Ticks; Mites; Lice; Fleas; Rickettsial diseases and mites; Endoparasites; Nematodes (roundworms and threadworms); Calodium and capillariasis; Strongyloides (threadworm) infection; Trichuriasis - whipworm infection; Trichinellosis; Toxascariasis and toxocariasis; Cestodes (tapeworms); Protozoa; Cryptosporidiosis; Toxoplasmosis; Amoebiasis; Giardiasis; Leishmaniasis

TrypanosomiasisBacteria; Yersiniosis; Pasteurellosis; Streptobacillus and rat-bite fever; Leptospirosis; Q fever; Salmonellosis; Campylobacter; Escherichia coli; Viruses; Hantavirus; Other viruses; Conclusion; References; 5: Rodent Control Methods: Non-chemical and Non-lethal Chemical, with Special Reference to Food Stores; Introduction; Environmental Context; Preventing and Reducing Immigration; Rodent proofing premises; Barrier methods; Electric fences; Diversion feeding; Ultrasound and electromagnetic devices; Chemical repellents; Emigration; Reduction of Pest Birth Rate Removal of nesting opportunities

Sommario/riassunto

The most numerous of the world's invasive species, rodent pests have a devastating impact on agriculture, food, health and the environment. In the last two decades, the science and practice of rodent control has faced new legislation on rodenticides, the pests' increasing resistance to chemical control and the impact on non-target species, bringing a new dimension to this updated 2nd edition and making essential reading for all those involved in rodent pest control, including researchers, conservationists, practitioners and public health specialists.
