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Descrizione fisica	1 online resource (XXI, 441 p. 82 illus., 51 illus. in color.)
Collana	Advances in Polar Ecology, , 2468-5712
Disciplina	595.385
Soggetti	Ecology Animal ecology Physiology Wildlife Fishes Environment, general Animal Ecology Animal Physiology Fish & Wildlife Biology & Management
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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	preface.-Chapter 1:Introducing Antarctic krill Euphausia superba Dana, 1850 -- Chapter 2: Distribution, biomass and demography of Antarctic krill, Euphausia superba -- Chapter 3: Age, growth, mortality, and recruitment of Antarctic Krill, Euphausia superba -- Chapter 4 Physiology of Euphausia superba -- Chapter 5: Feeding and food processing in Antarctic krill (Euphausia superba Dana) -- Chapter 6: Reproduction and larval development in Antarctic krill (Euphausia superba) -- Chapter 7: Genetics of Antarctic krill -- Chapter 8: Swarming and behaviour in Antarctic krill -- Chapter 9: the importance of krill predation in the Southern Ocean -- Chapter 10: Parasites and diseases -- Chapter 11: The fishery for Antarctic krill – its current status and management regime -- Glossary -- Genera and Species Index -- Index.
Sommario/riassunto	This book gives a unique insight into the current knowledge of krill

population dynamics including distribution, biomass, production, recruitment, growth and mortality rates. Detailed analysis is provided on food and feeding, reproduction and krill behaviour. The volume provides an overview on the aspects of natural challenges to the species, which involve predation, parasites and the commercial exploitation of the resource and its management. A chapter on genetics shows the results of population subdivision and summarizes recent work on sequencing transcriptomes for studying gene function as part of the physiology of live krill. The focus of Chapter 4 is on physiological functions such as biochemical composition, metabolic activity and growth change with ontogeny and season; and will demonstrate which environmental factors are the main drivers for variability. Further discussed in this chapter are the bottle necks which occur in the annual life cycle of krill, and the mechanisms krill have adapted to cope with severe environmental condition.