1. Record Nr. UNINA9910350314603321

Autore	Tame Jeremy R. H
Titolo	Approaches to Entropy [[electronic resource] /] / by Jeremy R. H. Tame
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-2315-1
Descrizione fisica	1 online resource (203 pages)
Disciplina	536.73
Soggetti	Engineering Thermodynamics Biochemistry Hydraulic engineering Engineering Thermodynamics, Heat and Mass Transfer Biochemistry, general Engineering Fluid Dynamics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	General thermodynamics -- Carnot and Clausius -- Maxwell and Boltzmann -- Gibbs -- Partition functions and ensembles -- Planck -- Einstein -- Shannon -- Nernst -- On Entropy as Mixed-up-ness -- Problems.
Sommario/riassunto	This is a book about thermodynamics, not history, but it adopts a semi-historical approach in order to highlight different approaches to entropy. The book does not follow a rigid temporal order of events, nor it is meant to be comprehensive. It includes solved examples for a solid understanding. The division into chapters under the names of key players in the development of the field is not intended to separate these individual contributions entirely, but to highlight their different approaches to entropy. This structure helps to provide a different view-point from other text-books on entropy.

2. Record Nr. UNINA9910139628003321

Autore	Lake P. Sam
Titolo	Drought and Aquatic Ecosystems [[electronic resource]] : Effects and Responses
Pubbl/distr/stampa	Hoboken, : Wiley, 2011
ISBN	1-283-17811-7 9786613178114 1-4443-4181-2 1-4443-4178-2
Descrizione fisica	1 online resource (402 p.)
Classificazione	SCI020000
Disciplina	595.76/49 595.7649
Soggetti	Droughts Dung beetles --Ecology Dung beetles --Evolution Freshwater ecology SCIENCE / Life Sciences / Ecology Earth & Environmental Sciences Zoology Health & Biological Sciences Meteorology & Climatology Invertebrates & Protozoa
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	DROUGHT and AQUATIC ECOSYSTEMS: Effects and Responses; Contents; Acknowledgements; 1 Introduction: the nature of droughts; 1.1 The social and economic damage of drought; 1.2 Major characteristics of drought; 1.3 The formation of droughts; 1.4 El Nino Southern Oscillation (ENSO) and drought; 1.5 Other important oscillations creating drought; 1.6 Drought in Australia; 2 Types of drought and their assessment; 2.1 Drought monitoring and indices; 2.2 Meteorological drought; 2.3 Hydrological drought; 3 The perturbation of hydrological drought; 3.1 Refuges and drought

3.2 Traits and adaptations to drought3.3 The nature of studies on drought in aquatic ecosystems; 4 Droughts of the past: dendrochronology and lake sediments; 4.1 Indicators of past droughts; 4.1.1 Dendrochronology; 4.1.2 Indicators from lakes: tree stumps and sediments; 4.2 Impacts of past drought on lakes; 4.3 Droughts of the Holocene; 4.3.1 Early and mid-Holocene droughts; 4.3.2 Late Holocene droughts; 5 Water bodies, catchments and the abiotic effects of drought; 5.1 Water body types; 5.2 Aquatic ecosystems, their catchments and drought; 5.3 Drought and effects on catchments
5.4 Riparian zones and drought5.5 Sequence of changes in water bodies with drying; 5.6 Changes in water quality with drought in lentic systems; 5.7 Drought in connected lakes; 5.8 Drought and water quality in flowing waters; 5.9 Drought and benthic sediments; 5.10 The breaking of drought - re-wetting and the return of flows; 5.11 Concluding remarks; 5.12 The next chapters; 6 Drought and temporary waters; 6.1 Drought and the biota of temporary waters; 6.1.1 Algae; 6.1.2 Vascular plants; 6.2 Fauna of temporary standing waters and drought; 6.2.1 Fish of temporary lentic waters
6.2.2 Invertebrates6.2.3 Invertebrates in regional standing water bodies of differing hydroperiods; 6.3 Insights from experimental studies of drought in temporary waters; 6.4 The biota of temporary streams and drought; 6.4.1 Drying in desert streams; 6.4.2 Mediterranean streams; 6.4.3 Dryland streams; 6.5 Drying and recovery in temporary wetlands and streams; 6.6 Conclusions; 7 Drought, floodplain rivers and wetland complexes; 7.1 Drought and floodplain systems; 7.2 Drought and the biota of floodplain systems; 7.2.1 Vascular plants; 7.2.2 Phytoplankton; 7.2.3 Zooplankton; 7.2.4 Benthos
7.3 Floodplain rivers, fish and drought7.3.1 Fish and the mainstem channel; 7.3.2 Drought and adaptations of floodplain fish; 7.4 Drought, fish assemblages and floodplain rivers; 7.5 Summary; 7.6 Large wetland complexes with seasonal flooding; 7.6.1 The Florida Everglades; 7.6.2 Drought and crustaceans of the Everglades; 7.6.3 Drought and fish of the Everglades; 7.6.4 Summary; 7.7 Amphibious and terrestrial vertebrates; 7.7.1 Amphibians; 7.7.2 Reptiles and mammals; 7.7.3 Waterbirds; 7.7.4 Summary; 8 Drought and perennial waters: plants and invertebrates; 8.1 Drought and lentic systems
8.1.1 Drought in Lake Chilwa

Sommario/riassunto

Droughts are a major hazard to both natural and human-dominated environments and those, especially of long duration and high intensity, can be highly damaging and leave long-lasting effects. This book describes the climatic conditions that give rise to droughts, and their various forms and chief attributes. Past droughts are described including those that had severe impacts on human societies. As a disturbance, droughts can be thought of as "ramps" in that they usually build slowly and take time to become evident. As precipitation is reduced, flows from catchments into aquatic systems decline.