

1. Record Nr.	UNINA9910299452603321
Autore	Bockheim James G.
Titolo	Cryopedology / / by James G. Bockheim
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-08485-2
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (182 p.)
Collana	Progress in Soil Science, , 2352-4774
Disciplina	55 550 631.4 919.8
Soggetti	Physical geography Soil science Soil conservation Polar regions Earth System Sciences Soil Science & Conservation Polar Geography
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 at the end of each chapters and index.
Nota di contenuto	Introduction -- Cryosols: a Three-Part System -- Description, sampling and analysis of Cryosols -- Soil Formatting Factors -- Cryogenic Processes -- Classification of Cryosols -- Distribution of Cryosols -- Arctic Cryosols -- Antarctic Cryosols -- Alpine Cryosols -- Cryosols and Earth-system Sciences -- Cryosols in a Changing Climate -- Management of Cryosols -- Cryosol Databases and Their Use.
Sommario/riassunto	This is the first book solely devoted to Cryopedology, the study of soils of cold regions. The analysis treats Cryosols as a three-part system (active layer, transition layer, permafrost). The book considers soil-forming factors, cryogenic processes, and classification and distribution of Cryosols. Cryosols of the Arctic, Antarctica, and the high mountains are considered in detail. The chapters address cryosols and earth-system science, cryosols in a changing climate, cryosols

databases and their use, and management of cryosols. The book is rich in color photographs and highlights the author's 43 field trips to Antarctica, the Arctic, and alpine areas.
