1. Record Nr. UNINA9910140786903321 Autore Kennepohl Dietmar Karl <1961-> Titolo Accessible elements [[electronic resource]]: teaching science online and at a distance / / Dietmar Kennepohl and Lawton Shaw Pubbl/distr/stampa Athabasca University Press, 2010 Edmonton, AB:,: AU Press,, [2010] ©2010 **ISBN** 1-282-85194-2 9786612851940 1-897425-48-1 Descrizione fisica 1 online resource (313 pages): illustrations Collana Issues in Distance Education Disciplina 507.11 Soggetti Science - Study and teaching (Higher) Science - Computer-assisted instruction Distance education Sciences - Etude et enseignement (Superieur) Sciences - Enseignement assiste par ordinateur Enseignement a distance 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 and index. Cover Page; Contents; Foreword; Introduction; Learning; CHAPTER ONE: Nota di contenuto Interactions Affording Distance Science Education: CHAPTER TWO: Learning Science at a Distance: Instructional Dialogues and Resources; CHAPTER THREE: Leadership Strategies for Coordinating Distance Education Instructional Development Teams; CHAPTER FOUR: Toward New Models of Flexible Education to Enhance Quality in Australian Higher Education; Laboratories; CHAPTER FIVE: Taking the Chemistry Experience Home - Home Experiments or "Kitchen Chemistry" CHAPTER SIX: Acquisition of Laboratory Skills by On-Campus and Distance Education StudentsCHAPTER SEVEN: Low-Cost Physics Home Laboratory; CHAPTER EIGHT: Laboratories in the Earth Sciences; CHAPTER NINE: Remote Control Teaching Laboratories and Practicals;

Logistics; CHAPTER TEN: Needs, Costs, and Accessibility of DE Science Lab Programs; CHAPTER ELEVEN: Challenges and Opportunities for

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Sommario/riassunto

Accessible Elements informs science educators about current practices in online and distance education: distance-delivered methods for laboratory coursework, the requisite administrative and institutional aspects of online and distance teaching, and the relevant educational theory. Delivery of university-level courses through online and distance education is a method of providing equal access to students seeking post-secondary education. Distance delivery offers practical alternatives to traditional on-campus education for students limited by barriers such as classroom scheduling, physical loca