1.	Record Nr.	UNINA9910877832303321
	Autore	Teraoka Iwao
	Titolo	Polymer solutions : an introduction to physical properties / / Iwao Teraoka
	Pubbl/distr/stampa	New York, : Wiley-Interscience, c2002
	ISBN	9786610541751
		9781523143955
		1523143959
		9781280541759
		128054175X
		9780471460763
		0471460761
		9780471224518
		0471224510
	Descrizione fisica	1 online resource (355 p.)
	Disciplina	547.7
		547/.70454
	Soggetti	Polymer solutions
		Polymers
	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.
	Nota di contenuto	Contents; Preface; 1 Models of Polymer Chains; 1.1 Introduction; 1.1.1 Chain Architecture; 1.1.2 Models of a Linear Polymer Chain; 1.1.3 Real Chains and Ideal Chains; 1.2 Ideal Chains; 1.2.1 Random Walk in One Dimension; 1.2.2 Random Walks in Two and Three Dimensions; 1.2.3 Dimensions of Random-Walk Chains; 1.2.4 Problems; 1.3 Gaussian Chain; 1.3.1 What is a Gaussian Chain?; 1.3.2 Dimension of a Gaussian Chain; 1.3.3 Entropy Elasticity; 1.3.4 Problems; 1.4 Real Chains; 1.4.1 Excluded Volume; 1.4.2 Dimension of a Real Chain; 1.4.3 Self-Avoiding Walk; 1.4.4 Problems; 1.5 Semirigid Chains 1.5.1 Examples of Semirigid Chains1.5.2 Wormlike Chain; 1.5.3 Problems; 1.6 Branched Chains; 1.6.1 Architecture of Branched Chains; 1.6.2 Dimension of Branched Chains; 1.6.3 Problems; 1.7 Molecular

Sommario/riassunto	Polymer Solutions: An Introduction to Physical Properties offers a fresh, inclusive approach to teaching the fundamentals of physical polymer science. Students, instructors, and professionals in polymer chemistry, analytical chemistry, organic chemistry, engineering, materials, and textiles will find Iwao Teraoka's text at once accessible and highly detailed in its treatment of the properties of polymers in the solution phase. Teraoka's purpose in writing Polymer Solutions is twofold: to familiarize the advanced undergraduate and beginning graduate student with basic concepts, theories, mode

2.	Record Nr.	UNINA9910299446403321
	Autore	Farmer G. Thomas
	Titolo	Modern Climate Change Science : An Overview of Today's Climate Change Science / / by G. Thomas Farmer
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
	ISBN	3-319-09222-7
	Edizione	[1st ed. 2015.]
	Descrizione fisica	1 online resource (128 p.)
	Collana	SpringerBriefs in Environmental Science, , 2191-5547
	Disciplina	551.6
	Soggetti	Climatic changes
		Climate
		Earth sciences
		Education
		Chemistry
		Energy
		Climate Change
		Climate, general
		Earth Sciences, general
		Education, general
		Chemistry/Food Science, general
		Energy, general
	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.
	Nota di contenuto	Chapter 1: Overview of Climate Change Science -- Chapter 2: Status of Climate Change Research -- Appendix A: Geologic Time -- Appendix B: The Metric System.
	Sommario/riassunto	Composed of two extensive sections, this book surveys important work in climate change science, mainly in the United States, and introduces contributions to the body of science that have arrived on the scene between January 2013 and February 2014. The opening section offers a broad examination of contemporary climate change science, with subsections on the Intergovernmental Panel on Climate Change (IPCC); Earth's energy imbalance and energy flow; carbon dioxide's role in the

greenhouse effect; climate forcing, and climate feedbacks; Charles David Keeling and the Keeling Curve; the interfaces of atmosphere with oceans and land; paleoclimates and paleoclimatology; rising sea level; melting glaciers; deforestation; desertification; more violent storms, animal and human migration, extinction of species and more. The second section reviews and assesses the newest contributions to the body of research. Among the topics discussed are current and recent research on rising temperatures; the BEST study; the Global Historical Climatology Network (GHCN) and the National Climatic Data Center (NCDC); current and recent research on climate models, new research on global warming 56 million years ago; ecosystem impacts, projections of future climate and more. This book can be considered a bridge between the volumes of Farmer and Cook's Climate Change Science: A Modern Synthesis, as it arrives between the release of the first volume on the Physical Climate (2013) the second, on Earth's climate history, which is now in preparation. The book benefits a wide audience as its survey of the science of climate change provides an introduction to the subject and a discussion of current research in the field. The book may be used as a refresher for those who have had prior courses in climate science and related fields. Each chapter includes a comprehensive list of references for subjects discussed in the text.