

1.	Record Nr.	UNINA990000406860403321
	Titolo	APPLICATIONS of Kinetic Modelling / Edited by R.G. Compton, G. Hancock
	Pubbl/distr/stampa	Amsterdam : Elsevier, 1999
	ISBN	0-444-50164-9
	Descrizione fisica	XXII, 714 p., ill., 25 cm
	Collana	Comprehensive Chemical Kinetics ; v. 37
	Disciplina	541.3'94s-dc21
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	Collocazione	04 130-35/37
	Lingua di pubblicazione	Italiano
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910461077103321
	Titolo	Polymer carbon nanotube composites : the polymer latex concept / / Nadia Grossiord, Marie Claire Hermant, Cor Koning
	Pubbl/distr/stampa	Singapore : , : Pan Stanford Pub., , 2012
	ISBN	0-429-06623-6 981-4364-16-9
	Descrizione fisica	1 online resource (248 p.)
	Altri autori (Persone)	GrossiordNadia HermantMarie Claire KoningCor
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Preface; Contents; 1. Introduction; 2. Toolbox for Dispersing Carbon Nanotubes into Polymers to Get Electrically Conductive Nanocomposites; 3. Tailoring and Monitoring the Sonication-Driven Dispersion of Carbon Nanotubes in Aqueous Surfactant Solutions; 4. Aspects of Processing Methods and Conditions Affecting Percolation Networks; 5. On the Versatility of the Latex-Based Process Regarding the Choice of the Polymer Matrix of the Nanocomposite; 6. Manipulating the Percolation of CNTs Using Hybrid Composite Systems; 7. Future Perspectives
Sommario/riassunto	This book provides readers with a comprehensive toolbox for dispersing single-walled and multiwalled carbon nanotubes in thermoplastic polymer matrices. The book starts with an overview of all known techniques for dispersing CNTs in thermoplastic polymers and then concentrates on one of the most versatile techniques known nowadays: the so-called latex technology. Also discussed are the basic principles of this latex technology, the role of the matrix viscosity on percolation threshold, the importance of the intrinsic CNT quality, the use of ""smart"" surfactants facilitating electron transport