Record Nr.	UNINA9910299742003321
Autore	Green David G
Titolo	Dual phase evolution / / David G. Green, Jing Liu, Hussein A. Abbass
Pubbl/distr/stampa	New York : , : Springer, , 2014
ISBN	1-4419-8423-2
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (xxvi, 196 pages) : illustrations (some color)
Collana	Gale eBooks
Disciplina	004.6 519 620 620.00285
Soggetti	Phase transformations (Statistical physics)
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	Dual Phase Evolution Network Theory Problem Solving and Evolutionary Computation DPE for Network Generation DPE Networks and Evolutionary Dynamics DPE for Problem Solving Conclusion and Future Work.
Sommario/riassunto	This book explains how dual phase evolution operates in all these settings and provides a detailed treatment of the subject. The authors discuss the theoretical foundations for the theory, how it relates to other phase transition phenomena and its advantages in evolutionary computation and complex adaptive systems. The book provides methods and techniques to use this concept for problem solving. Dual phase evolution concerns systems that evolve via repeated phase shifts in the connectivity of their elements. It occurs in vast range of settings, including natural systems (species evolution, landscape ecology, geomorphology), socio-economic systems (social networks) and in artificial systems (annealing, evolutionary computing).

1.