

1. Record Nr.	UNINA9910711836803321
Autore	Levin Sara B.
Titolo	Massachusetts Reservoir Simulation Tool : user's manual // by Sara B. Levin
Pubbl/distr/stampa	Reston, Virginia : , : U.S. Department of the Interior, U.S. Geological Survey, , 2016
Descrizione fisica	1 online resource (iv, 22 pages) : color illustrations, color maps
Collana	Open-file report, , 2331-1258 ; ; 2016-1136
Soggetti	Water balance (Hydrology) - Massachusetts - Computer simulation Reservoirs - Massachusetts - Computer simulation Handbooks and manuals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (page 22).

2. Record Nr.	UNINA9910788016003321
Autore	Sorrentino Alfonso
Titolo	Action-minimizing methods in Hamiltonian dynamics : an introduction to Aubry-Mather theory // Alfonso Sorrentino
Pubbl/distr/stampa	Princeton, [New Jersey] ; ; Oxford, [England] : , : Princeton University Press, , 2015 ©2015
Edizione	[Pilot project,eBook available to selected US libraries only]
Descrizione fisica	1 online resource (129 p.)
Collana	Mathematical Notes ; ; 50
Disciplina	514.74
Soggetti	Hamiltonian systems Hamilton-Jacobi equations
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	Front matter -- Contents -- Preface -- Chapter One. Tonelli Lagrangians and Hamiltonians on Compact Manifolds -- Chapter Two. From KAM Theory to Aubry-Mather Theory -- Chapter Three. Action-Minimizing Invariant Measures for Tonelli Lagrangians -- Chapter Four. Action-Minimizing Curves for Tonelli Lagrangians -- Chapter Five. The Hamilton-Jacobi Equation and Weak KAM Theory -- Appendices -- Appendix A. On the Existence of Invariant Lagrangian Graphs -- Appendix B. Schwartzman Asymptotic Cycle and Dynamics -- Bibliography -- Index
Sommario/riassunto	John Mather's seminal works in Hamiltonian dynamics represent some of the most important contributions to our understanding of the complex balance between stable and unstable motions in classical mechanics. His novel approach-known as Aubry-Mather theory-singles out the existence of special orbits and invariant measures of the system, which possess a very rich dynamical and geometric structure. In particular, the associated invariant sets play a leading role in determining the global dynamics of the system. This book provides a comprehensive introduction to Mather's theory, and can serve as an interdisciplinary bridge for researchers and students from different fields seeking to acquaint themselves with the topic.Starting with the mathematical background from which Mather's theory was born,

Alfonso Sorrentino first focuses on the core questions the theory aims to answer—notably the destiny of broken invariant KAM tori and the onset of chaos—and describes how it can be viewed as a natural counterpart of KAM theory. He achieves this by guiding readers through a detailed illustrative example, which also provides the basis for introducing the main ideas and concepts of the general theory. Sorrentino then describes the whole theory and its subsequent developments and applications in their full generality. Shedding new light on John Mather's revolutionary ideas, this book is certain to become a foundational text in the modern study of Hamiltonian systems.
