

1. Record Nr.	UNINA9910456713703321
Autore	Levi Mark <1951->
Titolo	The mathematical mechanic [[electronic resource] ] : using physical reasoning to solve problems / / Mark Levi
Pubbl/distr/stampa	Princeton ; ; Oxford, : Princeton University Press, c2009
ISBN	1-282-45845-0 9786612458453 1-4008-3047-8
Edizione	[Course Book]
Descrizione fisica	1 online resource (197 p.)
Disciplina	510 530.15
Soggetti	Problem solving Mathematical physics Electronic books.
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 (p. 183-184) and index.
Nota di contenuto	Frontmatter -- Contents -- 1 Introduction -- 2 The Pythagorean Theorem -- 3 Minima and Maxima -- 4 Inequalities by Electric Shorting -- 5 Center of Mass: Proofs and Solutions -- 6 Geometry and Motion -- 7 Computing Integrals Using Mechanics -- 8. The Euler-Lagrange Equation via Stretched Springs -- 9 Lenses, Telescopes, and Hamiltonian Mechanics -- 10 A Bicycle Wheel and the Gauss-Bonnet Theorem -- 11 Complex Variables Made Simple(r) -- Appendix. Physical Background -- Bibliography -- Index
Sommario/riassunto	Everybody knows that mathematics is indispensable to physics-- imagine where we'd be today if Einstein and Newton didn't have the math to back up their ideas. But how many people realize that physics can be used to produce many astonishing and strikingly elegant solutions in mathematics? Mark Levi shows how in this delightful book, treating readers to a host of entertaining problems and mind-bending puzzlers that will amuse and inspire their inner physicist. Levi turns math and physics upside down, revealing how physics can simplify proofs and lead to quicker solutions and new theorems, and how physical solutions can illustrate why results are true in ways lengthy

mathematical calculations never can. Did you know it's possible to derive the Pythagorean theorem by spinning a fish tank filled with water? Or that soap film holds the key to determining the cheapest container for a given volume? Or that the line of best fit for a data set can be found using a mechanical contraption made from a rod and springs? Levi demonstrates how to use physical intuition to solve these and other fascinating math problems. More than half the problems can be tackled by anyone with precalculus and basic geometry, while the more challenging problems require some calculus. This one-of-a-kind book explains physics and math concepts where needed, and includes an informative appendix of physical principles. The Mathematical Mechanic will appeal to anyone interested in the little-known connections between mathematics and physics and how both endeavors relate to the world around us.

2. Record Nr.	UNINA9910463943603321
Autore	Noegel Scott B.
Titolo	Historical dictionary of prophets in Islam and Judaism // Scott B. Noegel, Brannon M. Wheeler
Pubbl/distr/stampa	Lanham, Maryland : , : Scarecrow, , 2002
ISBN	0-8108-6610-2
Descrizione fisica	1 online resource (562 p.)
Collana	Historical dictionaries of religions, philosophies, and movements ; ; number 43
Disciplina	296/.092/2 B
Soggetti	Prophecy - Judaism Prophecy - Islam Prophecy Prophets Electronic books.
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 indexes.
Nota di contenuto	Cover; Title Page; Copyright Page; Dedication Page; Table of Contents;

Editor's Foreword; Preface; List of Abbreviations; Chronology; Introduction; The Dictionary; Appendix 1: List of Dictionary Entries; Appendix 2: List of Prophets; Bibliography; General Index; Index of References; About the Authors

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## Sommario/riassunto

Both traditions recognize and draw theological and historical lessons from some of the same narrative sources, but this is the first comparative resource to provide interdisciplinary coverage of the history and textual sources associated with prophets and prophecy. This thorough treatment of a difficult and increasingly controversial subject area will encourage and cultivate knowledge and understanding.

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