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Titolo	Mythematics : solving the Twelve Labors of Hercules // Michael Huber
Pubbl/distr/stampa	Princeton, New Jersey : , : Princeton University Press, , c2009
ISBN	1-282-45856-6 9786612458569 1-4008-3190-3
Edizione	[Course Book]
Descrizione fisica	1 online resource (206 pages)
Disciplina	510
Soggetti	Problem solving
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. 167-169) and index.
Nota di contenuto	The first Labor : the Nemean Lion -- The second Labor : the Lernean Hydra -- The third Labor : the Hind of Ceryneia -- The fourth Labor : the Erymanthian Boar -- The fifth Labor : the Augean Stables -- The sixth Labor : the Stymphalian Birds -- The seventh Labor : the Cretan Bull -- The eighth Labor : the Horses of Diomedes -- The ninth Labor : the Belt of Hippolyte -- The tenth Labor : Geryon's Cattle -- The eleventh Labor : the Apples of the Hesperides -- The twelfth Labor : Cerberus -- Appendix A. The Labors and subject areas of mathematics -- Appendix B. Hercules before the Labors -- Appendix C. The authors of the Hercules myth -- Appendix D. The Laplace Transform -- Appendix E. solution to the sudoku puzzles.
Sommario/riassunto	How might Hercules, the most famous of the Greek heroes, have used mathematics to complete his astonishing Twelve Labors? From conquering the Nemean Lion and cleaning out the Augean Stables, to capturing the Erymanthean Boar and entering the Underworld to defeat the three-headed dog Cerberus, Hercules and his legend are the inspiration for this book of fun and original math puzzles. While Hercules relied on superhuman strength to accomplish the Twelve Labors, Mythematics shows how math could have helped during his quest. How does Hercules defeat the Lernean Hydra and stop its heads from multiplying? Can Hercules clean the Augean Stables in a day? What is the probability that the Cretan Bull will attack the citizens of

Marathon? How does Hercules deal with the terrifying Kraken? Michael Huber's inventive math problems are accompanied by short descriptions of the Twelve Labors, taken from the writings of Apollodorus, who chronicled the life of Hercules two thousand years ago. Tasks are approached from a mathematical modeling viewpoint, requiring varying levels of knowledge, from basic logic and geometry to differential and integral calculus. Mythematics provides helpful hints and complete solutions, and the appendixes include a brief history of the Hercules tale, a review of mathematics and equations, and a guide to the various disciplines of math used throughout the book. An engaging combination of ancient mythology and modern mathematics, Mythematics will enlighten and delight mathematics and classics enthusiasts alike.
