1. Record Nr. UNINA9910158659703321

Autore	Aronson Deb
Titolo	Alexandra the Great : the story of the record-breaking filly who ruled the racetrack / / Deb Aronson
Pubbl/distr/stampa	Chicago, Illinois : , : Chicago Review Press, , [2016]
ISBN	1-61373-646-0
Descrizione fisica	1 online resource
Disciplina	798.4/50929
Soggetti	Rachel Alexandra (Race horse) Race horses - United States Fillies
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.

2. Record Nr. UNINA9910337602503321

Autore	Öchsner Andreas
Titolo	Finite Elements for Truss and Frame Structures : An Introduction Based on the Computer Algebra System Maxima / / by Andreas Öchsner, Resam Makvandi
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-319-94941-1
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XIV, 119 p. 33 illus., 4 illus. in color.)
Collana	SpringerBriefs in Computational Mechanics, , 2191-5350
Disciplina	620.1
Soggetti	Mechanics, Applied Solids Solid Mechanics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Maxima - A Computer Algebra System -- Rods and Trusses -- Euler-Bernoulli Beams and Frames -- Timoshenko Beams and Frames -- Maxima Source Codes.
Sommario/riassunto	This book is intended as an essential study aid for the finite element method. Based on the free computer algebra system Maxima, the authors offer routines for symbolically or numerically solving problems in the context of plane truss and frame structures, allowing readers to check classical ‘hand calculations’ on the one hand and to understand the computer implementation of the method on the other. The mechanical theories focus on the classical one-dimensional structural elements, i.e. bars, Euler–Bernoulli and Timoshenko beams, and their combination to generalized beam elements. Focusing on one-dimensional elements reduces the complexity of the mathematical framework, and the resulting matrix equations can be displayed with all components and not merely in the form of a symbolic representation. In addition, the use of a computer algebra system and the incorporated functions, e.g. for equation solving, allows readers to focus more on the methodology of the finite element method andnot on standard procedures. .