

1. Record Nr.	UNISALENTO991001977279707536
Titolo	Springer handbook of engineering statistics / Hoang Pham (ed.)
Pubbl/distr/stampa	London : Springer, c2006
ISBN	1852338067
Descrizione fisica	xliv, 1120 p. : ill. ; 25 cm + 1 cd-rom (4 3/4 in.)
Classificazione	AMS 62-XX LC TA340.S67
Altri autori (Persone)	Pham, Hoangauthor
Disciplina	519.5
Soggetti	Engineering - Statistical methods - Handbooks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index Includes CD-ROM attached to p. [3] of cover

2. Record Nr.	UNINA9911010534003321
Autore	Vlase Sorin
Titolo	Models in Statics for Engineers / / by Sorin Vlase, Marin Marin, Andreas Öchsner, Maria Luminita Scutaru
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-91316-7
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (257 pages)
Altri autori (Persone)	MarinMarin ÖchsnerAndreas ScutaruMaria Luminita
Disciplina	620.1
Soggetti	Mechanics, Applied Statics Mechanics Mathematical optimization Calculus of variations Engineering Mechanics Mechanical Statics and Structures Classical Mechanics Calculus of Variations and Optimization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Fundamental Notions and Principles of Mechanics -- Statics of a Material Point -- Statics of a System of Material Points -- Equivalent Force Couple Systems -- Center of Gravity (Mass) -- Equilibrium of a Rigid Body -- Statics of Rigid Body Systems -- Applications of Statics in the Real World -- Virtual Work Principle.
Sommario/riassunto	This book covers all the standard introductory topics in classical mechanics, for the first part: Statics (the analysis of forces and moments acting on a mechanical system in equilibrium with its environment). Starting from Newton's laws, the necessary and sufficient conditions are formulated for a point/rigid/system to remain in equilibrium. The main problems that may arise in engineering practice are analyzed and numerous problems illustrate the presentation. It is

well known that classical mechanics, viewed as a theoretical discipline, possesses an inherent beauty, depth and richness and presents coherence and elegance. This book tries to highlight this beauty and harmony that classical mechanics offers. The long experience of the authors means that the way of presentation is intensively tested in the decades of contact with students. The textbook is mainly addressed to advanced undergraduate and beginning graduate students who are interested in the engineering application of modern methods in classical mechanics. The authors try to use a clear and systematic style to promote a good understanding of the subject. For this part of mechanics, statics, the authors motivated and illustrated each concept, with worked examples. The book intends to provide a thorough coverage of the fundamental principles and techniques of classical mechanics. The text is based on the authors' many years of experience delivering lectures and seminars. Most of the problems are original and will be useful not only for those studying mechanics, but also for those who teach it.

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