

1. Record Nr.	UNINA9910555133003321
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Titolo	Introduction to the variational formulation in mechanics : fundamentals and applications // Pablo J. Blanco, Edgardo O. Taroco, Raul A. Feijoo
Pubbl/distr/stampa	Hoboken, NJ : , : John Wiley & Sons, Inc., , 2020
ISBN	1-119-60095-2 1-119-60092-8 1-119-60094-4
Edizione	[First edition.]
Descrizione fisica	1 online resource (609 pages)
Disciplina	620.1
Soggetti	Mechanics, Applied - Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	"This book was written intermittently over the period between 1980 and 2016 with an aim to provide students attending the courses organized by the authors, and particularly for the graduate students at the National Laboratory for Scientific Computing (LNCC), with the foundational material of Mechanics using a variational tapestry. It is the result of the knowledge acquired and divulged by E.O.T and R.A.F. since the LNCC was established, which was initiated with the creation of the Laboratory of Computing (LAC) of the Brazilian Center for Research in Physics (CBPF) in 1977, through the foundation of the Laboratory for Scientific Computing (LCC) in 1980, its conversion into the category of a national laboratory (LNCC) in 1982 and the definitive move to the city of Petropolis in 1998"--