

1. Record Nr.	UNINA9910157848103321
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Titolo	A first course in vibrations and waves
Pubbl/distr/stampa	Oxford : , : Oxford University Press, , 2015
ISBN	0-19-180411-8
Edizione	[First edition.]
Descrizione fisica	1 online resource : illustrations (black and white)
Disciplina	531/.32
Soggetti	Vibration Waves Acoustics & Sound Physics Physical Sciences & Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Sommario/riassunto	This title builds on introductory physics and emphasises understanding of vibratory motion and waves based on first principles. It is divided into three parts: Part I contains a preliminary chapter that reviews relevant ideas of mechanics and complex numbers; Part II discusses vibrations of mechanical systems, covering a simple harmonic oscillator, coupled oscillators, normal coordinates, beaded string, continuous string, standing waves, and Fourier series. Part II ends with a presentation of stationary solutions of driven finite systems. Part III is concerned with waves.