1.	Record Nr.	UNINA9910784453003321
	Autore	Wolf John P
	Titolo	Foundation vibration analysis [[electronic resource]] : a strength-of-materials approach / / John P. Wolf, Andrew J. Deeks
	Pubbl/distr/stampa	Amsterdam ; ; Boston, : Elsevier, 2004
	ISBN	1-281-05247-7 9786611052478 0-08-047789-5
	Descrizione fisica	1 online resource (233 p.)
	Altri autori (Persone)	DeeksAndrew J
	Disciplina	624.1/5
	Soggetti	Foundations - Vibration Strength of materials
	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. [209]-211) and index.
	Nota di contenuto	Introduction -- Concepts of the cone model -- Initial cone with outward wave propagation -- Wave reflection and refraction at a material discontinuity -- Foundation embedded in a layered half-space -- Evaluation of accuracy -- Engineering applications -- Concluding remarks -- Appendix A: Frequency-domain response analysis -- Appendix B: Dynamic soil-structure interaction -- Appendix C: Wave propagation in a semi-infinite prismatic bar -- Appendix D: Historical note -- Appendix E: Program CONAN (CONe ANalysis)--user's guide -- Appendix F: MATLAB procedures for cone analysis.
	Sommario/riassunto	Structural analysis is usually carried out by a strength-of-materials approach that allows complex 3-D structures to be modelled adequately for design needs in a single dimension. However, this approach is not extensively used in geotechnical engineering, partly because 3-D media (soil, rock) are present, but more importantly because until recently the methods necessary to carry out this form of analysis did not exist.In the last ten years efforts at modelling practical problems in foundation analysis using a strength-of-materials approach have developed the concept of the conical bar