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| Titolo | Foundation vibration analysis [[electronic resource]] : a strength-of-materials approach / / John P. Wolf, Andrew J. Deeks |
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| 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 Electronic books. |
| 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 |

