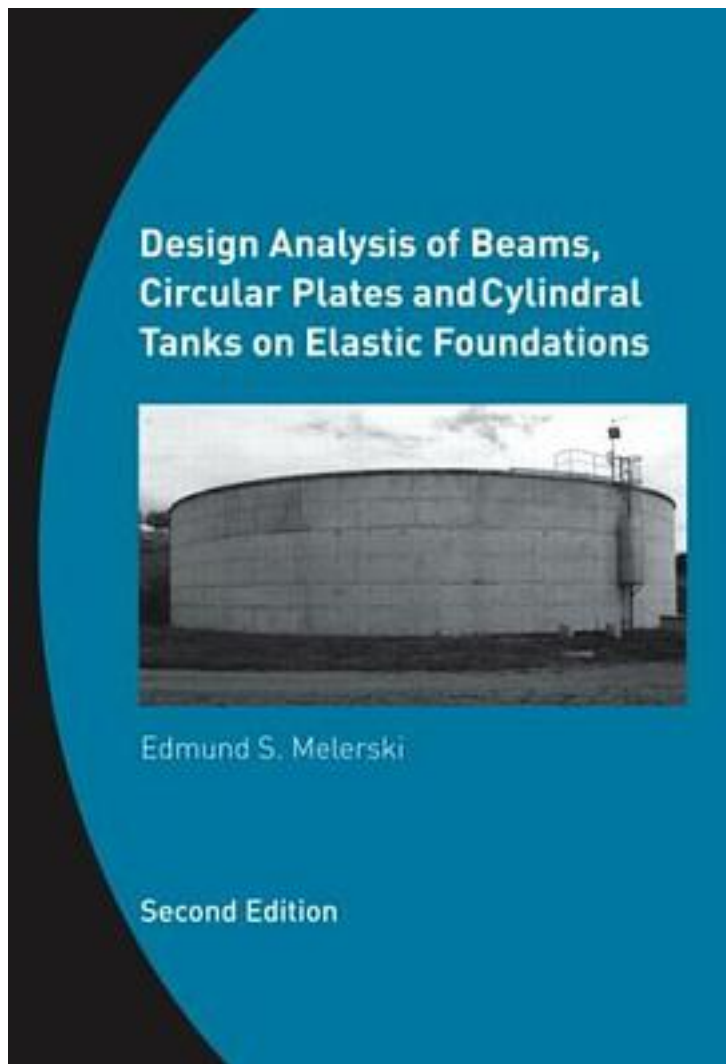


Design Analysis of Beams, Circular Plates and Cylindrical Tanks on Elastic Foundations



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This valuable second edition provides important extensions of unique techniques of numerical analyses of beams, long strips, circular plates, and circular-cylindrical tanks resting on elastic foundations and/or unyielding/elastic supports. Emphasis is placed upon simplicity of analysis without compromising the accuracy of results and a large number of examples are included for illustration. These also provide help for users of the easy-to-use software included. The fully-revised software runs smoothly under current Windows operating systems. Employing the numerical techniques outlined in the book, this powerful tool makes design analysis of the related structures easy and time-efficient. The applicability of the software is extended to analysis of laterally-loaded piles and bending analysis of retaining walls. A bonus suite of complementary software containing programmes for elastic-plastic soil-structure interaction analyses of beams/strips, laterally-loaded piles/sheet-piles, and long retaining walls is also included. The book and software are of the greatest interest and use to practising engineers engaged in design of beams, strips, circular plates, circular-cylindrical tanks and silos. Postgraduate students and researchers working in the soil-structure interaction area should also find the book-software package of great value. The pack includes a CD-ROM with IBM-compatible BPT software, comprising a system of computer programme modules for statical analyses of linear-elastic Beams and Strips; Axi-symmetric Circular Plates; and Axi-symmetric Circular-Cylindrical Tanks resting on various types of elastic foundations.

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