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Nota di contenuto	Frontmatter -- Preface -- Contents -- Part I: Quasi-statics of contact interaction -- 1. Optimal contact pressure and optimal punch shape -- 2. Influence of forces applied outside contact region -- 3. Shape optimization of punch moving with friction -- 4. Optimization in contact problems under incomplete data -- 5. Application of probabilistic data -- 6. Minimization of material wear -- 7. Multiobjective optimization of contact pressure, wear of material, and energy dissipation -- Part II: High-speed penetration into deformable medium -- 8. Optimization of impactor shape -- 9. Strikers of nonaxisymmetric optimal shape -- 10. Multiobjective optimization of rigid shell -- 11. Optimization of truncated rotating strikers -- 12. Penetration into solid medium under strength constraints -- 13. Some problems of global multipurpose structural optimization -- 14. Analytical and numerical estimations of optimal parameters of layered slab -- 15. Striker shape optimization using condition of minimal ballistic limit velocity for layered slabs -- Part III: Appendices -- Appendix A. Nonadditive functionals and extremum conditions -- Appendix B. Multivariant estimation of functionals and their sensitivity

Sommario/riassunto

This monograph studies optimization problems for rigid punches in elastic media and for high-speed penetration of rigid strikers into deformed elastoplastic, concrete, and composite media using variational calculations, tools from functional analysis, and stochastic and min-max (guaranteed) optimization approaches with incomplete data. The book presents analytical and numerical results developed by the authors during the last ten years.

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Titolo	Electronic green journal / / University of Idaho Library
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Disciplina	025
Soggetti	Environmental sciences - Information services Environmental Management & Protection Umweltschutz Zeitschrift Online-Ressource Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed Title from title screen of WWW version (publisher's Web site, viewed Aug. 12, 2004).
Sommario/riassunto	A professional refereed publication devoted to disseminating information concerning sources on international environmental topics including: assessment, conservation, development, disposal, education, hazards, pollution, resources, technology, and treatment.