

Technical Reports

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19. Boris Jeremić. Neobično ponašanje materijala i konstrukcija. Monografija u čast 85. godina rođena profesora Milana Djurić-a, Gradjevinski Fakultet Univerziteta u Beogradu, 2005. Non-intuitive Behavior of Materials and Structures. Monograph in honour of 85 years since the birth of Professor Milan Djurić, Civil Engineering Faculty, University of Belgrade, 2005, in Serbian.
18. Boris Jeremić. Lecture Notes on Computational Geomechanics (aka Inelastic Finite Elements for Pressure Sensitive Materials) University of California, Davis, continuously adding and updating. 2000–2004. <http://sokocalo.engr.ucdavis.edu/~jeremic/CG/LN.pdf>
17. Boris Jeremić, James Putnam, Zhaohui Yang, Kallol Sett, Jinxiu Liao, Guanzhou Jie. Final Report: Earthquake Response of Bridge Abutment Backfills Constructed with Tire Shreds. University of California, Davis, April 2004.
16. Boris Jeremić, Qing Liu and Xiaoyan Wu. Theoretical Formulation, Computer Implementation and Verification of Fully Coupled, Solid-Fluid, Dynamic Behavior of Soils University of California, Davis, June 2004.
15. Boris Jeremić and Ritu Jain. The Plastic Domain Decomposition Method in Parallel Computational Geomechanics. University of California, Davis, March 2004.
14. Boris Jeremić, James Putnam, Zhaohui Yang, Kallol Sett, Jinxiu Liao, Guanzhou Jie. Interim Report: Earthquake Response of Bridge Abutment Backfills Constructed with Tire Shreds. University of California, Davis, September 2003.
13. Silvia Mazzoni, Frank McKenna, Michael H. Scott, Gregory L. Fenves and Boris Jeremić. Open System for Earthquake Engineers Simulation: User Manual. Pacific Earthquake Engineering Research Center, University of California, Berkeley, December 2002. <http://peer.berkeley.edu/~silvia/OpenSees/manual/html2/>
12. Boris Jeremić. Development of Geotechnical Capabilities in G3, report # PEER – 2132000-3. Pacific Earthquake Engineering Research Center University of California, Berkeley, September 2001.

11. Boris Jeremić, Dan W. Wilson Key Rosebrook and Zhaohui Yang. Centrifuge Characterization and Numerical Modeling of the dynamic properties of Tire Shreds for Use as Bridge Abutment Backfill Center for Geotechnical Modeling Report No. UCD CGM-00/01, May 2000.
10. Boris Jeremić, Michael Akers, Kevin Makles and Nathan Straz. Beowulf class parallel computer for large scale computations in geomechanics: Design and construction. Progress report, Clarkson University, 1998.
9. Boris Jeremić. Finite Deformation Hyperelasto-plasticity of Geomaterials. PhD thesis, University of Colorado at Boulder, July 1997.
8. Dunja Perić, Boris Jeremić, Teng-Fung Yang, Stein Sture, Hon-Yim. Ko, and Y. Atsushi. The elasto plastic material model: Model description and numerical predictions. Report to: VELACS extension project for the M.I.T. meeting, October 30-31, 1995.
7. Boris Jeremić and Stein Sture. Finite element implementation of elasto plastic material model. Report to: NASA, Marshall Space Flight Center, Contract: NAS8-38779, University of Colorado at Boulder, May 1995.
6. Boris Jeremić, Roy Swanson, Stein Sture, Khalid Al-Shibli, and Runing Zhang. Automation of digitization process for recording grid displacement. Report to NASA Marshall Space Flight Center, Contract: NAS8-38779, University of Colorado at Boulder, September 1994.
5. Boris Jeremić. Implicit integration rules in plasticity: Theory and implementation. Master's thesis, University of Colorado at Boulder, May 1994.
4. Boris Jeremić, Khalid Al-Shibli, Runing Zhang, Roy Swanson, and Stein Sture. Static and dynamic testing of MGM triaxial specimens. Report to NASA Marshall Space Flight Center, Contract: NAS8-38779, University of Colorado at Boulder, February 1994.
3. Boris Jeremić. nDarray Programming Tool. Object Oriented Approach to Numerical Computations in Elastoplasticity, Reference Manual, University of Colorado at Boulder, December 1993.
2. Boris Jeremić. Nonlinear Effects in Structures: Report to PAK group, Kragujevac, May 1992, In Serbian.
1. Boris Jeremić. "Dynamic Analysis of Axisymmetric Solids Subjected to Non-Symmetric Loading by the Finite Element Method", Diploma Thesis, July 1989, Faculty of Civil Engineering, Belgrade University, In Serbian.