



PUBLICATIONS

BOOK

1. **A.R. Khoei**, 'Extended Finite Element Method, Theory and Applications', **John Wiley**, (584 pages) **2015**, ISBN: 978-1-118-45768-9.
2. **A.R. Khoei**, 'Computational Plasticity in Powder Forming Processes', **Elsevier (UK)**, (449 pages) **2005**, ISBN 0-080-44636-1.

Chapter in Book: **A.R. Khoei**, 'Modeling of powder forming processes; Application of a three-invariant cap plasticity and an enriched arbitrary Lagrangian–Eulerian FE method' (Chapter 7), *Advanced Computational Materials Modeling*, Vaz Jr. et al. (Eds.), **Wiley**, ISBN 978-3527324798, **2010**.

Monograph: **A.R. Khoei**, 'Computational Modeling of Powder Compaction Processes', Monograph Series on: *Computational Modeling of Forming Processes*, **CIMNE CMFP-1**, International Center for Numerical Methods in Engineering, Barcelona, Spain, (200 pages), ISBN 84-95999-45-5, **2003**.

Edited Conference Proceedings

A.S. Khan and **A.R. Khoei**, 'Dislocations, Plasticity, Damage and Metal Forming: Material Response and Multiscale Modeling', **NEAT Press**, Maryland, USA, (646 pages), ISBN 0-9659463-5-5, **2005**.

N. Tabatabaee and **A.R. Khoei**, 'Proceedings of the First National Congress on Civil Engineering', **Sharif University of Technology**, Tehran, Iran, **2004**.

Refereed Journals

1. **A.R. Khoei**, **F. Jahanbakhshi** and **A. Aramoon**, 'A concurrent multi-scale technique in modeling heterogeneous FCC nano–crystalline structures', *Mechanics of Materials*, **2015**. (in press)
2. **A.R. Khoei**, **R. Yasbolaghi** and **S.O.R. Biabanaki**, 'A polygonal–FEM technique in modeling large sliding contact on non-conformal meshes; A study on polygonal shape functions', *Engineering Computation*, **2015**. (in press)
3. **P. Broumand** and **A.R. Khoei**, 'X-FEM modeling of dynamic ductile fracture problems with a nonlocal damage–viscoplasticity model', *Finite Elements in Analysis and Design*, **2015**. (in press)

4. **A.R. Khoei, P. Ghahremani and H. DorMohammadi**, 'Multi-scale modeling of surface effects in nano-materials with temperature-related Cauchy-Born hypothesis via the modified boundary Cauchy-Born model', *International Journal for Numerical Methods in Engineering*, **97**, 79-110, **2014**.
5. **A.R. Khoei, A. Aramoon, F. Jahanbakhshi and H. DorMohammadi**, 'A coupling atomistic-continuum approach for modeling mechanical behavior of nano-crystalline structures', *Computational Mechanics*, **54**, 269-286, **2014**.
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7. **A.R. Khoei, H. DorMohammadi and A. Aramoon**, 'A temperature-related boundary Cauchy-Born method for multi-scale modeling of silicon nanostructures', *Physics Letters A*, **378**, 551-560, **2014**.
8. **A.R. Khoei, M. Vahab, E. Haghighat and S. Moallemi**, 'A mesh-independent finite element formulation for modeling crack growth in saturated porous media based on an enriched-FEM technique', *International Journal of Fracture*, **188**, 79-108, **2014**.
9. **A.R. Khoei and M. Vahab**, 'A numerical contact algorithm in saturated porous media with the extended finite element method', *Computational Mechanics*, **2014**.
10. **O.R. Barani and A.R. Khoei**, '3D Modeling of cohesive crack growth in partially saturated porous media; A parametric study', *Engineering Fracture Mechanics*, **124-125**, 272-286, **2014**.
11. **M. Ebrahimnejad, N. Fallah and A.R. Khoei**, 'Two new approximation functions with the meshless finite volume formulation for 2D elasticity problems', *Engineering Analysis with Boundary Elements*, **46**, 10-22, **2014**.
12. **A.R. Khoei, S.O.R. Biabanaki and R. Yasbolaghi**, 'A polygonal-FEM technique in modeling arbitrary interfaces on non-conformal meshes; A study on polygonal shape functions', *European Journal of Computational Mechanics*, **23**, 15-37, **2014**.
13. **A.R. Khoei, A. Aramoon, F. Jahanbakhshi and H. DorMohammadi**, 'A concurrent multi-scale modeling for dynamic behavior of nano-crystalline structures', *Computational Materials Science*, **79**, 841-856, **2013**.
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15. **M. Eftekhari, S. Mohammadi and A.R. Khoei**, 'Effects of defects on the local shell buckling and post-buckling behaviour of single and multi-walled carbon nanotubes', *Computational Materials Science*, **79**, 736-744, **2013**.
16. **A.R. Khoei, M. Eghbalian, H. Azadi and H. Saffar**, 'Numerical simulation of ductile crack growth under cyclic and dynamic loading with a damage-viscoplasticity model', *Engineering Fracture Mechanics*, **99**, 169-190, **2013**.
17. **P. Broumand and A.R. Khoei**, 'The extended finite element method for large deformation ductile fracture problems with a non-local damage-plasticity model', *Engineering Fracture Mechanics*, **112**, 97-125, **2013**.

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22. **A.R. Khoei**, **S.O.R. Biabanaki** and **S.M. Parvaneh**, '3D dynamic modeling of powder forming processes via a simple and efficient node-to-surface contact algorithm', *Applied Mathematical Modeling*, **37**, 443-462, **2013**.
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