November 15, 2011

PUBLICATIONS OF XINGJIE LI

References for Journal Papers

1. Brian Van Koten, Xingjie Li, Mitchell Luskin, and Christoph Ortner. A Computational and Theoretical Investigation of the Accuracy of Quasi-continuum Methods. *In Ivan Graham, Tom Hou, Omar Lakkis, and Rob Scheichl, editors, Numerical Analysis of Multiscale Problems. Springer, to appear. arXiv:1012.6031.*
2. Xingjie Li and Mitchell Luskin. A Generalized Quasi-Nonlocal Atomistic-to-Continuum Coupling Method with Finite Range Interaction. *IMA Journal of Numerical Analysis, 2011, 10.1093/imanum/drq049.*
3. Xingjie Li and Mitchell Luskin. An Analysis of the Quasi-Nonlocal Quasicontinuum Approximation of the Embedded Atom Model. *International Journal for Multiscale Computational Engineering, 2010, accepted.*
4. Wenbin Chen, Xingjie Li and Dong Liang. Energy-Conserved Splitting Finite-Difference Time-Domain Methods for Maxwell's Equations in Three Dimensions. *SIAM Journal on Numerical Analysis, 2010, Vol.48, No.4.*
5. Wenbin Chen, Xingjie Li and Dong Liang. Energy-conserved splitting FDTD methods for Maxwell equations. *Numerische Mathematik, 2008, Volume 108, Number 3, 445-485.*
6. Wenbin Chen, Xingjie Li and Dong Liang. Symmetric Energy-Conserved Splitting FDTD Scheme for the Maxwell's Equations. *Communications in Computational Physics, 2008, vol. 6, issue 4, pp. 804-825.*

References for Current Papers

1. Xingjie Li, Mitchell Luskin and Christoph Ortner. Positive-definiteness of the Blended Force-Based Quasicontinuum Method. *manuscript.*
2. Liping Gao, Xingjie Li and Wenbin Chen. New Energy identities and Super Convergence Analysis of the Energy Conserved Splitting FDTD methods for 3D Maxwell's Equations. *submitted.*
3. Xingjie Li and Mitchell Luskin. Lattice Stability for Atomistic Chains Modeled by Local Approximations of the Embedded Atom Method. *submitted. arXiv:1108.4473v1.*
4. Xingjie Li and Christoph Ortner.Ḃlended Force-Based Quasicontinuum Method for General Potentials: Formulation and Consistency. *In preparation.*