

$$f(\xi, \eta) = \nabla_{\eta} w(\xi, \eta)$$

$$f(\xi, \eta) = c_{d,\delta} \frac{|\xi+\eta|-|\xi|}{|\xi|} \frac{\xi+\eta}{|\xi+\eta|}$$

$$\varphi(x, t) = 1 - \frac{\int_{\mathcal{H}(x)} \mu(\xi, \eta, t) d\hat{x}}{\int_{\mathcal{H}(x)} d\hat{x}}$$

$$\rho(x) \partial_t^2 \mathbf{u}(x, t) = \operatorname{div} \boldsymbol{\sigma}(\mathbf{u}(x, t)) + \mathbf{b}(x, t)$$

$$\boldsymbol{\sigma}(\mathbf{v}(x)) = \int_{\Omega} \alpha(|\hat{x} - x|) s(\mathbf{v}(\hat{x})) d\hat{x}$$

$$\frac{9Ks^2}{2} = \frac{3Es^2}{2(1-2\nu)}$$

Nonlocal Models and Peridynamics

$$\frac{9Ks^2}{2} = \frac{3Es^2}{2(1-2\nu)}$$

$$\boldsymbol{\sigma} = E\boldsymbol{\epsilon}$$

$$\rho(x) \partial_t^2 \mathbf{u}(x, t) = \int_{\mathcal{H}(x)} \mathbf{f}(\hat{x} - x, \mathbf{u}(\hat{x}, t) - \mathbf{u}(x, t)) d\hat{x}$$

$$\varphi(x, t) = 1 - \frac{\int_{\mathcal{H}(x)} \mu(\xi, \eta, t) d\hat{x}}{\int_{\mathcal{H}(x)} d\hat{x}}$$

$$\boldsymbol{\sigma}(\mathbf{v}(x)) = \int_{\Omega} \alpha(|\hat{x} - x|) s(\mathbf{v}(\hat{x})) d\hat{x}$$

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$$f(\xi, \eta) = c_{d,\delta} \frac{|\xi+\eta|-|\xi|}{|\xi|} \frac{\xi+\eta}{|\xi+\eta|}$$

November 05 – 07, 2012
at Technische Universität Berlin



Invited speakers

Afaf Bouharguane (Grenoble)
Nathaniel Burch (Research Triangle Park)
Xavier Cabré (Barcelona)
Qiang Du (Pennsylvania)
Albert Erkip (Istanbul)
Espen Robstad Jakobsen (Trondheim)
Grzegorz Karch (Wrocław)
Moritz Kaßmann (Bielefeld)
Dorothee Knees (Berlin)
Robert Lipton (Louisiana)
Tadele Mengesha (Pennsylvania)
Dimitri Puhst (Berlin)
Marc Alexander Schweitzer (Bonn)

Organisation

Etienne Emmrich (Berlin)
Max Gunzburger (Tallahassee)
Richard B. Lehoucq (Albuquerque)



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