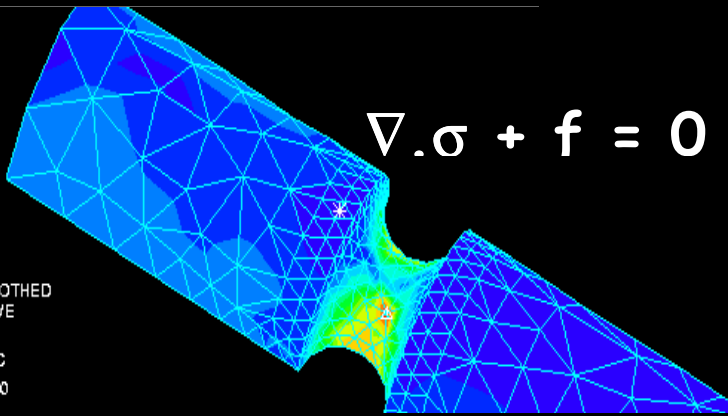


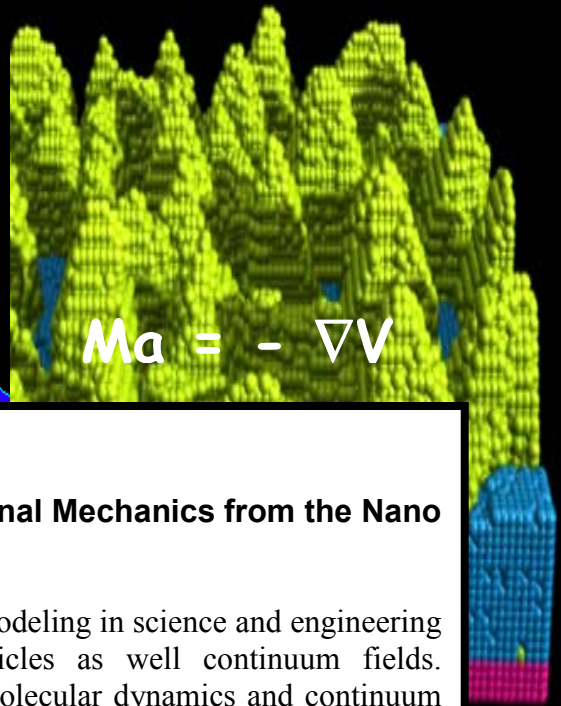
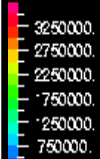


Rensselaer

New course for Spring 2004: Computational Mechanics: from the Nano to the Macro



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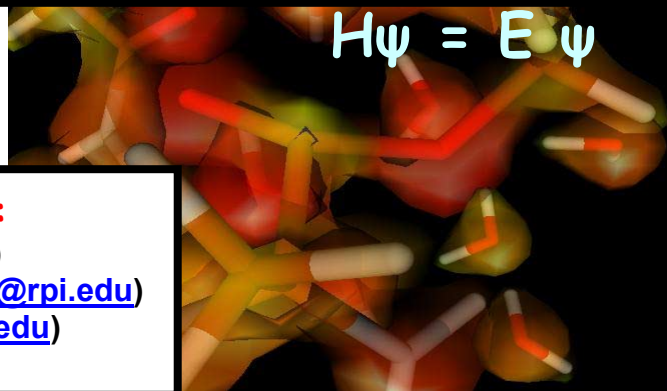
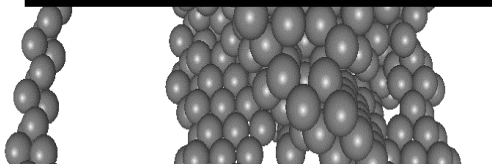


SUMMARY DESCRIPTION

MANE/PHYS/CHME/CIVL 6961: Computational Mechanics from the Nano to the Macro

This course will introduce a unified approach of modeling in science and engineering across spatial and temporal scales using particles as well continuum fields. Techniques for simulating quantum mechanics, molecular dynamics and continuum phenomena (finite elements) will be discussed with the objective of studying fundamental physical phenomena encountered in the fields of computational physics, mechanics, materials science, biology, and applied mathematics.

Prerequisites: Permission of instructor



For more information, contact:

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