

Adaptive, multilevel, and hierarchical computational strategies - presented at the Winter Annual Meeting of the American Society of Mechanical Engineers, Anaheim, California, November 8-13, 1992

The Society - US6400996B1

Models	Discipline	Length scale, m	Phenomena
Phenomenological/ macromechanical	Computational structural mechanics	10^{-4} to 10^{-2}	• Structural response • Metal forming
Micromechanical	Computational material science	10^{-6} to 10^{-4}	• Plastic strain localization • Crack tip fields • Indentation fracture
Polycrystals (homogenized models)		10^{-6}	• Void growth • Polycrystalline slip • Microstructural effects
Single crystals		10^{-8}	• Dislocations • Particles and interfaces
Atomistic models	Molecular dynamics Quantum mechanics	10^{-10}	• Creep diffusion • Cleavage • Discrete defects • Basic transport properties • Phase transformation

Description: -

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United Church of Canada -- Creeds.
Mechanics, Applied -- Data processing -- Congresses. Adaptive, multilevel, and hierarchical computational strategies - presented at the Winter Annual Meeting of the American Society of Mechanical Engineers, Anaheim, California, November 8-13, 1992

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Alice M. Agogino

This presently described system differs from normal pay-per-view techniques because it allows, in certain instances, the user to schedule the viewing. The machine model module 430, including physical models for bearings and gears, provides data for preliminary training of the neural network on common bearing and gear faults. These systems do not require human comprehension of the pattern in order to be useful, although human understanding of the nature of the problem is helpful in designing the neural network system, as is known in the art.

Conferences

Ojalvo, Journal of Engineering Education, Vol. Polikar, IEEE Circuits and Systems Magazine, PP.

US5566092A

Fox, editor, The Third Conference on Hypercube Concurrent Computers and Applications, Volume 2, pages 1247-1268. Telepresence -- Robotics and Mosaic, Video Telephony, Telesensuality Research underway at NYU represents each of these four areas. ACM Press, New York, January 1988.

Noor, Ahmed Khairy

If there is sufficient interest in other categories, we will consider making arrangements with Japanese publishers.

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