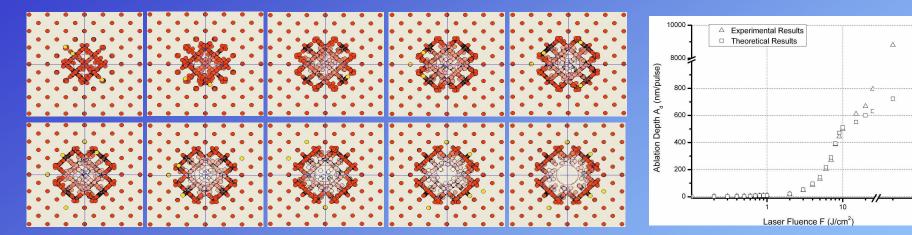
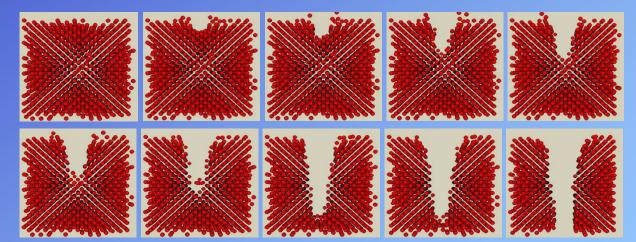
Molecular dynamics simulations of Laser ablation processes

Plan views of the ablation simulation area

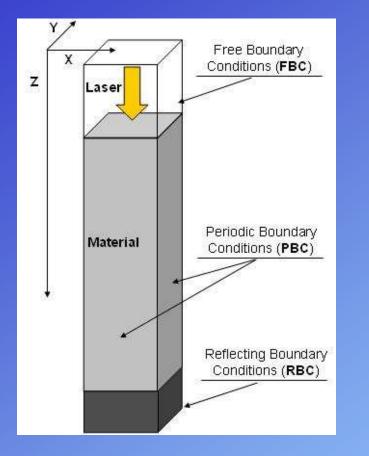


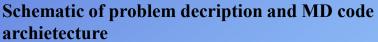
Cross sections of the ablation simulation area

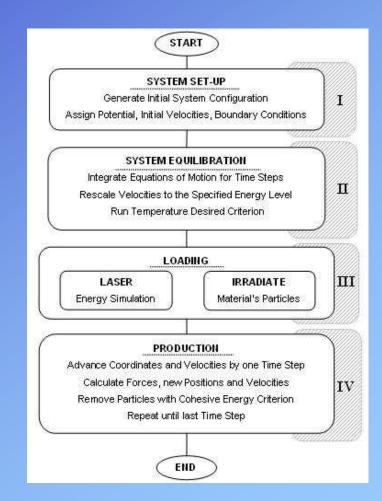


REF: Stavropoulos, P. and G. Chryssolouris, "Molecular Dynamics Simulations of Laser Ablation: The Morse Potential Function Approach", to be published in the International Journal on Nanomanufacturing, "3D Nanomanufacturing special issue", (2008).

Molecular dynamics simulations of Laser ablation processes

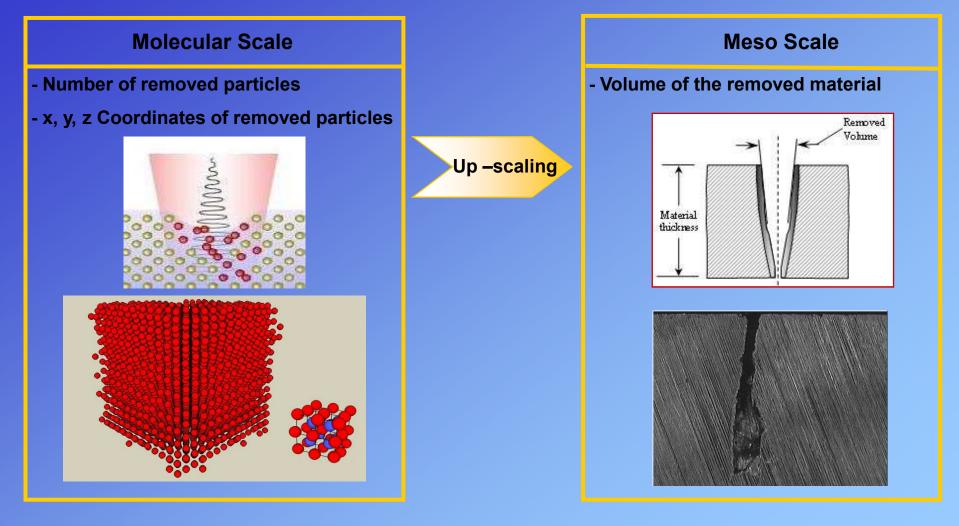






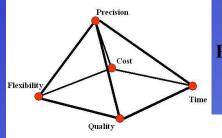
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Molecular dynamics simulations of Laser ablation processes

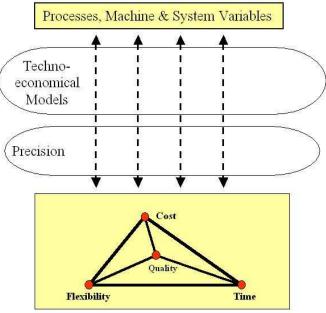


REF: Stavropoulos, P. and G. Chryssolouris, "Molecular Dynamics Simulations of Laser Ablation: The Morse Potential Function Approach", to be published in the International Journal on Nanomanufacturing, "3D Nanomanufacturing special issue", (2008).

Nanomanufacturing and Nanomaterials Processing Nanomanufacturing Drivers



Precision in nanomanufacturing as attribute

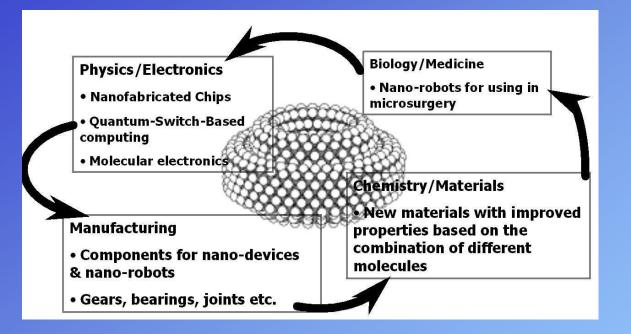


Similar to large-scale fabrication, nano-manufacturing issues revolve around precursor materials; fabrication processes and characterisation techniques; instrumentation and equipment; theoretical modelling and control; and design and integration of structures into devices and systems.

Precision as an external factor in nanomanufacturing

REF: Chryssolouris, G., P. Stavropoulos, G. Tsoukantas, K. Salonitis and A. Stournaras, "Nanomanufacturing Processes: A Critical Review", International Journal of Materials & Product Technology, (Vol. 21, No 4, 2004), pp. 331-348

Nanomanufacturing and Nanomaterials Processing Nanomanufacturing Approaches



The domain of nanoscale structures, typically below 100nm, lies dimensionally between that of ordinary, macroscopic or mesoscale products and microdevices, or molecules

Nanomanufacturing Approaches

REF: Chryssolouris, G., P. Stavropoulos, G. Tsoukantas, K. Salonitis and A. Stournaras, "Nanomanufacturing Processes: A Critical Review", International Journal of Materials & Product Technology, (Vol. 21, No 4, 2004), pp. 331-348