



Professor Norman A. Fleck FEng, FRS

See:

<http://www-mech.eng.cam.ac.uk/profiles/fleck/>

http://en.wikipedia.org/wiki/Norman_Fleck

<http://www.worldcat.org/identities/lccn-n97-30801>

<http://www.bookfinder.com/author/norman-a-fleck/>

<http://65.54.113.26/PublicationList?srcType=4&desType=2&srcID=5454&desID=1028249>

Professor of Mechanics of Materials
Director of the Cambridge Centre for Micromechanics
Engineering Department
University of Cambridge

Education:

BA, Cambridge University, 1979

PhD, Cambridge University, 1984

Research Interests:

Mechanical behaviour of materials

Micromechanics of deformation and fracture
Fatigue, fracture and creep of engineering solids
Plasticity theory and finite elements
Metallic foams
Powder compaction
Ferroelectrics

Research Group Affiliation:

Micromechanics
Materials
Engineering for the Life Sciences

Recent Publications:

Qiu, X., Deshpande, V.S. and Fleck, N. A. (2005). Impulsive loading of clamped monolithic and sandwich beams over a central patch. *J. Mech. Phys. Solids*, 53, 1015-1046

Hutchinson, R.G., Fleck, N.A. and Cocks, A.C.F. (2005). A sintering model for thermal barrier coatings. To be submitted to *Acta Materialia*.

McShane, G. J., Radford, D D, Deshpande, V S and Fleck, N A. (2005). The response of clamped sandwich plates with lattice cores subjected to shock loading. Submitted to *Eur. J. Mechanics, A/Solids*

Borg, U., Niordson, C.F., Fleck, N.A. and Tvergaard, V. (2005). A viscoplastic strain gradient analysis of materials with voids or inclusions. Submitted to *Int. J. Solids and Structures*.

Hutchinson, R.G. and Fleck, N.A. (2005). The structural performance of the Kagome lattice. To be submitted to *Int. J. Solids and Structures*

Luo, J. K, Flewitt, A.J., Spearing, S.M., Fleck, N.A. and Milne, W.I. (2004). Three types of planar structure microspring electro-thermal actuators with insulating beam constraints. *Journal of Micromechanics and Microengineering*, 15, 1527-1535

Côté, F., Deshpande, V.S., Fleck, N.A. and Evans, A.G. (2005). The compressive and shear responses of corrugated and diamond lattice materials. To appear in *Int. J. Solids Structures*.(download paper)

Deshpande, V.S., Heaver, A. and Fleck, N.A. (2005). An underwater shock simulator. Submitted to *Proc. Roy. Soc. Lond A*

Luo, J. K, Flewitt, A.J., Spearing, S.M., Fleck, N.A. and Milne, W.I. (2005). Comparison of microtweezers based on three lateral thermal actuator configurations. *Journal of Micromechanics and Microengineering*, 15, 1294-1302

Luo, J. K., He, J.H., Fu, Y.Q., Flewitt, A.J., Spearing, S.M., Fleck, N.A. and Milne, W.I. (2005). Fabrication and characterization of diamond-like carbon/Ni bimorph normally closed microcages. *Journal of Micromechanics and Microengineering*, 15, 1406-1413.

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