Ball, John M. (ed.); James, Richard D. (ed.); Müller, Stefan (ed.)
PDE and materials. Abstracts from the workshop held September 13th – September 19th, 2009. (English) [Zbl 1192.00046]

Introduction: This meeting brought together an interesting and inspiring mix of mathematicians, physicists and material scientists, both theoreticians and experimentalists, to discuss new challenges for mathematics arising from materials science and the use of mathematical ideas in materials science. The talks and extensive informal discussions covered phenomena on all the relevant length scales, atomistic, mesoscopic and macroscopic, with particular emphasis and rigorous bridges between these scales.

MSC:
00B05 Collections of abstracts of lectures
74-06 Proceedings, conferences, collections, etc. pertaining to mechanics of deformable solids
35-06 Proceedings, conferences, collections, etc. pertaining to partial differential equations
35Q74 PDEs in connection with mechanics of deformable solids

Full Text: DOI