

Single-ion micromechanics

Fischer BE, Metzger S
MRS BULLETIN 25 (2000) 39-42

This article describes the production of different types of microstructures using high-energy heavy-ion beams, a process called single-ion micromechanics. The formation of high-resolution "radiation shadows" using unfocused, high-energy heavy ions is first described, and the rest of the article discusses the production of microstructures using precisely aimed single ions and the technology underlying this process using a microprobe.