

Abstract Submitted
for the MAR12 Meeting of
The American Physical Society

Deformations of 2D Random Elastic Networks HENDRIK FLORIJN, M. VAN DEEN, HENK IMTHORN, MARTIN VAN HECKE, Leiden University, GRANULAR & DISORDERED MEDIA TEAM — We study the linear and nonlinear behavior of random 2D elastic networks at the desktop scale. We demonstrate how to fabricate random networks and characterize them with the lattice coordination number Z . We investigate experimentally if there is a relation between the mechanical response and the lattice coordination number Z of the network.

Hendrik Florijn
Leiden University

Date submitted: 14 Nov 2011

Electronic form version 1.4