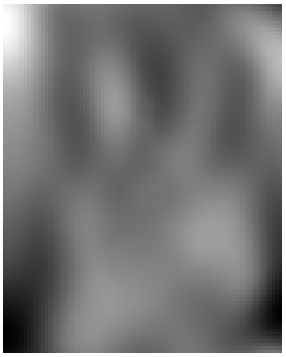
Description for the FEM box simulation

This phantom is a simulated viscoelastic box with four targets of decreasing size. Background material have shear modulus of 3 KPa and the targets have shear modulus of 10 kPa. All materials have viscosity of 1 Pa s following the Voigt model. The waves are actuated by a traction force on the top xz plane. Displacement is predominantly in the Z direction. The data is in the format of a complex Matlab 5D object.



centerslice of waves in a simulted viscoelastic box.

This simulation was provided through a collaboration with the Clinical Research Imaging Centre, University of Edinburgh. If you use it please cite the following paper: Barnhill et al. 2017 HMDI [...]

Voxel spacing: 1mm isotropic

Index description:

Index	Physical Meaning	Dimension length	Sorting
1	y-coordinate (row index)	100	ascending
2	x-coordinate (column index)	80	ascending
3	z-coordinate (slice index)	10	ascending
4	motion encoding direction index (y,x,z)	3	1: along y-axis 2: along x-axis 3: along z-axis
5	frequency index	6	[50, 60, 70, 80] Hz (ascending)