

B.J. LAZAN, DAMPING OF MATERIALS AND MEMBERS IN STRUCTURAL MECHANICS, Pergamon Press, c1968

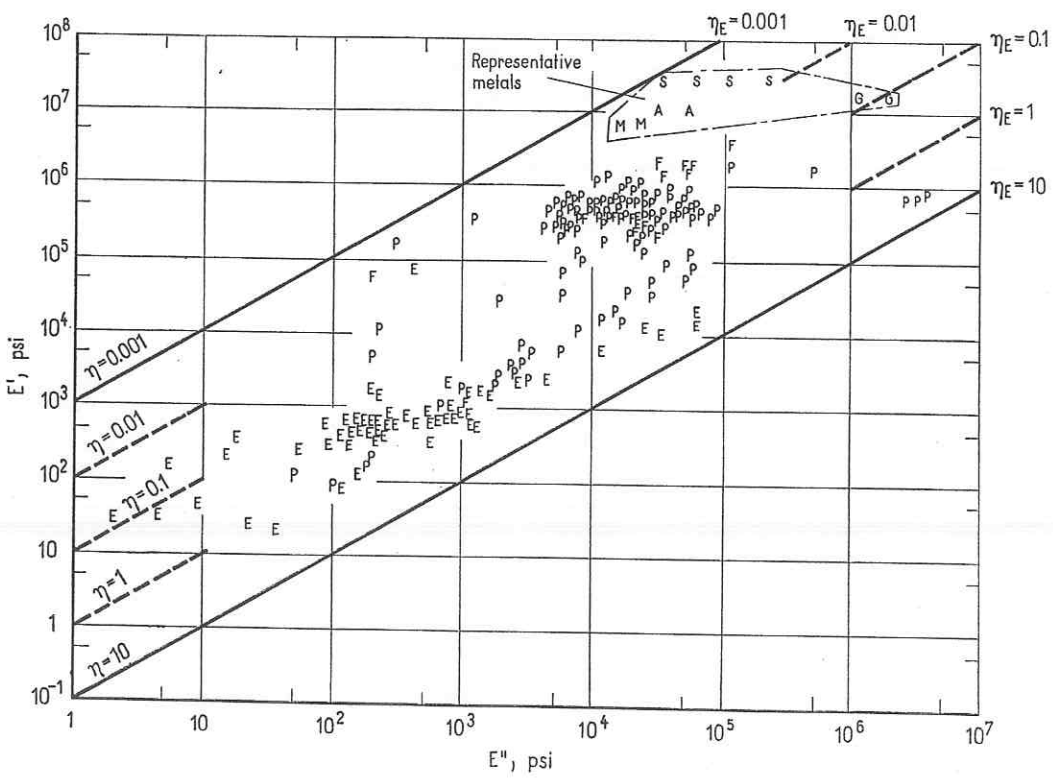


FIG. 8.7. Storage modulus of elasticity E' versus loss modulus of elasticity E'' and loss coefficient η_E for various materials.

Representative metals

- | | |
|---------------|----------------------|
| S = Steels | A = Aluminums |
| C = Grey iron | M = Magnesium alloys |

- P = Polymeric Materials
E = Elastomers
F = Fibers

G? probably "H"

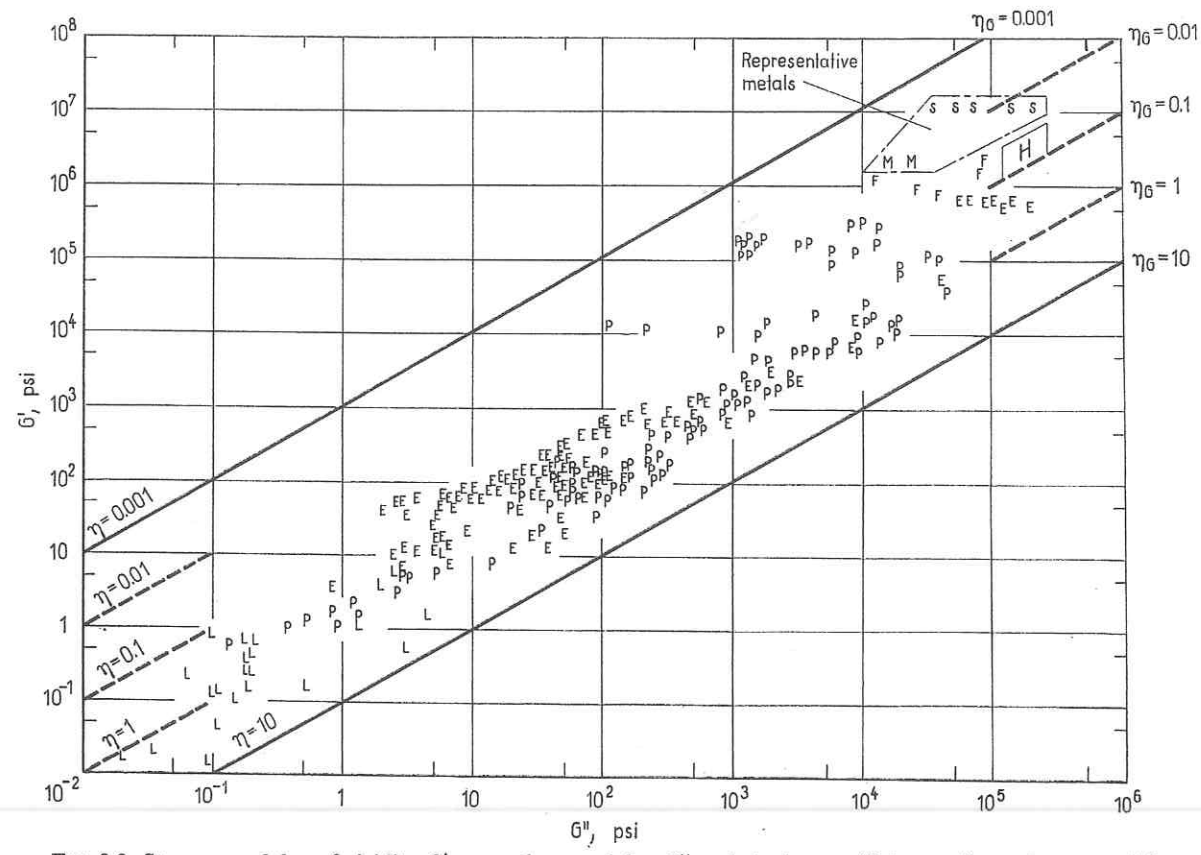


FIG. 8.8. Storage modulus of rigidity G' versus loss modulus G'' and the loss coefficient η_G for various materials.

Representative metals

- | | |
|------------|----------------------|
| S = Steels | M = Magnesium alloys |
|------------|----------------------|

- [H] High damping Mn-Co and magnetoelastic alloys

- Also: P = Polymeric Materials
E = Elastomers
F = Fibers
L = Liquids