

**Algotino, Franco; Bigi, Dante; Cicala, Placido**

**Plane deformations of Mooney-Rivlin solids.** (Italian. English summary) Zbl 0797.73017

*Atti Accad. Sci. Torino, Cl. Sci. Fis. Mat. Nat.* 123, No. 3-4, 133-146 (1989).

Summary: For plane, finite deflections of a Mooney-Rivlin body, the general equations are written for periodic field distributions along the direction where a uniform precompression is exerted. The parametric expansion is developed for the half-space subjected to sinusoidal load distribution on the contour plane.

**MSC:**

74B20 Nonlinear elasticity

**Keywords:**

periodic field distributions; uniform precompression; parametric expansion; half-space; sinusoidal load