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Corrigendum

“Estimation of Critical Loads in Elastic Stability Theory”

Archive for Rational Mechanics & Analysis 17, 171–183 (1964)

Professor MILLARD F. BEATTY has pointed out to me that the inequalities (3.30) to (3.33) are not dimensionally homogeneous. This error can be put right by writing

$$a_i = a a'_i \quad (i=1, \dots, 6) \quad (1)$$

where a has the dimensions of $[\text{stress} \times \text{volume}]^{-1}$.

The inequalities (3.30) to (3.33) should be replaced by

$$-2 R_{12} M_{12} \geq -2 a(a'_1 + 1) M_{12}^2 - a a'^2_2 M_{23}^2 - a a'^2_3 M_{31}^2, \quad (2)$$

$$-2 R_{23} M_{23} \geq -a a'^2_2 M_{12}^2 - 2 a(a'_4 + 1) M_{23}^2 - a a'^2_5 M_{31}^2, \quad (3)$$

$$-2 R_{31} M_{31} \geq -a a'^2_3 M_{12}^2 - a a'^2_5 M_{23}^2 - 2 a(a'_6 + 1) M_{31}^2, \quad (4)$$

$$R_{kj} \int_R t_{ij} u'_{k,i} dx \geq -a(2a'_1 + 2 + a'^2_2 + a'^2_3) M_{12}^2 \\ - a(a'^2_2 + 2a'_4 + 2 + a'^2_5) M_{23}^2 - a(a'^2_3 + a'^2_5 + 2a'_6 + 2) M_{31}^2 \quad (5)$$

respectively.

Finally if the definition of A given in equation (3.34) is changed to

$$A = a \max \{2a'_1 + 2 + a'^2_2 + a'^2_3, a'^2_2 + 2a'_4 + 2 + a'^2_5, a'^2_3 + a'^2_5 + 2a'_6 + 2, 0\} \quad (6)$$

then the remainder of the analysis is unchanged.

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(Received July 15, 1967)