

## Problem

In Example, what would be the percentage of the load supported by the fibers if their strength were 1000 MPa and the matrix strength were 300 MPa? What would be the answer if the fiber stiffness were doubled and the matrix stiffness were halved?

### Example Calculation of Stiffness of a Composite and Load Supported by Fibers

**Given:** Assume that a graphite-epoxy unidirectional plastic with longitudinal fibers contains 30% graphite fibers. The elastic modulus of the fibers is 300 GPa, and that of the epoxy matrix is 100 GPa.

**Find:** Calculate the elastic modulus of the composite and the fraction of the load supported by the fibers.

**Solution:** The data given are  $v = 0.3$ ,  $E_f = 300$  GPa, and  $E_m = 100$  GPa. Using Eq. (9-3),

$$E_c = 0.2(300) + (1 - 0.2)(100) \\ = 60 + 80 = 140 \text{ GPa}$$

From Eq. (9-4), the load fraction  $F_f/F_c$  is found to be

$$\frac{F_f}{F_c} = \frac{0.2(300)}{0.3(100)} = 0.71$$

**Because**

$$F_c = F_f + F_m \quad \text{and} \quad F_m = \frac{F_f}{0.71},$$

we obtain,

$$F_c = F_f + \frac{F_f}{0.71} = 2.11F_f, \quad \text{or} \quad F_f = 0.47F_c$$

Thus, the fibers support 47% of the load, even though they occupy only 30% of the cross-sectional area (and hence volume) of the composite.

# Manufacturing Engineering And Technology 7th Edition Answers

**Serope Kalpakjian**



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web may 16 2023 pembuatan kandang litter burung puyuh lebih efisien bila dibandingkn dengan membuat kandang baterai namun perawatan dan panen telur puyuh jauh lebih mudah bila kita membudidayakan puyuh petelur di kandang baterai

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web apr 6 2023 keunggulan budidaya burung puyuh petelur waktu pemeliharaan agar bisa mendapat telur termasuk singkat sehingga hasil budidaya bisa cepat dirasakan modal ternak puyuh tidak banyak termasuk jenis burung yang resisten terhadap penyakit produksi telur dan dagingnya puyuh tergolong tinggi

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