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The basic conclusions were that composite secondary structures might save 10% but that composite primary structures might save more than 30%. In contrast, laminar flow control might save 20%, active controls for both tail and wing

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10%, high-aspect-
ratio wings 10%,
and supercritical
wings less than 5%.

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solution for a single cell can be used to generate the deformation field in a fibrous I composite subjected to uniform overall strains or stresses, and to a uniform thermal change.

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Typically, the solution is found with the finite element method for a selected 1 subdivision of the unit cell.

Engineering
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Composites. Fibre-reinforced plastic (FRP) composite materials are basically of two types. The first type is short fibres reinforced in a plastic matrix, and the other type continuous (long) fibres reinforced in a plastic matrix.

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The exact distinction between a short and a continuous fibre is discussed in Chapter 1.

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Assemblages of
layers (Fig. 16.2)
of fibrous

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composite materials, which can be tailored to provide a wide range of engineering properties, including inplane stiffness, bending stiffness, strength, and coefficients of thermal expansion, are called composite laminates

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. The individual
layers consist of
high-modulus,...

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following chapters
focus on structural
uses of composites,
particularly in naval
ships, aircraft, re-
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space vehicle structures; and the micromechanics, structural mechanics, and failure mechanics of composite materials. Problems in the design of joints and attachments are considered,...

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3. An introduction to the general (static, dynamics, nonlinear kinematics) physical behavior of composite materials. 4. An exposure to a variety of failure mechanism found in

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Design of laminated
structures.

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reviews papers that
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Continuous fibre-
reinforced
composite materials

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are referred to by many labels: FRP composites, advanced composites, fibrous composites, composite materials or simply composites. These terms are now generally accepted to mean the same type of material, namely, continuous

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fibre reinforced in
plastic.

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Summary

Comprehensive
coverage of micro
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studies on
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Mechanics of Composite Materials, RM Christensen.

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