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This book balances
introduction to the
basic concepts of the
mechanical behavior of
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It covers topics from...

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Composite materials
are materials
comprising two or

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more material phases with different physical properties. Because they usually exhibit remarkable physical properties, in general superior to the properties of their individual components, they appear pervasively in engineering applications (e.g., reinforced concrete in

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Composite Materials

Professor Kaw's main scholarly interests are in engineering education research, open courseware development, bascule bridge design, fracture mechanics, composite materials, computational nanomechanics, and the state and future of higher education.

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A composite material

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(also called a composition material or shortened to composite, which is the common name) is a material made from two or more constituent materials with significantly different physical or chemical properties that, when combined, produce a material with characteristics different from the individual components.

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An assessment is given of the means of predicting the mechanical properties of composite materials in terms of the

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microstructure properties. Fiber reinforced composites are considered as well as other types of heterogeneous combinations of materials. Various geometric models of microstructure characteristics are discussed.

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elasticity, mechanics of composite materials, design, analysis, fabrication, and application of composite structures. According to the list of books on composites presented in 'Mechanics of Fibrous Composites' by C.T. Herakovich (1998) there were

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1997, Dr. Kaw

introduced the first
edition of Mechanics of

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receiving high praise

for its comprehensive
scope and detailed

examples. He also
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