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MECH ENG 414: Mechanics of 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.

Mechanics of Composite Materials - College of Engineering

Valery V. Vasiliev, Evgeny V. Morozov, in *Advanced Mechanics of Composite Materials and Structures (Fourth Edition)*, 2018. Composite materials emerged in the middle of the 20th century as a promising class of engineering materials providing new prospects for modern technology. Generally speaking, any material consisting of two or more components with different properties and distinct boundaries between the components can be referred to as a composite material.

Composite Materials - an overview | ScienceDirect Topics

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About the Book MECHANICS OF COMPOSITE MATERIALS

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3 Credits Advanced Composite Materials ME-GY7243 The course covers mechanics based analysis of fibrous (continuous and discontinuous) and particulate composites, generalized Hooke's law for anisotropic and orthotropic materials. Topics: Stress strain transformations and failure criterion for anisotropic materials.

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