

1.	Record Nr.	UNISALENTO991000948859707536
	Autore	Caioli, I.
	Titolo	Bande un modo di dire : rockabillies, mods, punks / prefazione di Bianca Beccalli ; I. Caioli ...[et al.]
	Pubbl/distr/stampa	Milano : UNICOPLI, c1986
	ISBN	8810000259
	Descrizione fisica	305 p. ; 24 cm.
	Collana	Collana del centro studi e ricerche sulla devianza e l'emarginazione
	Altri autori (Persone)	Beccalli, Bianca
	Soggetti	Milano-aspetti socio-culturali
	Lingua di pubblicazione	Italiano
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910896528203321
	Autore	Ochsner Andreas
	Titolo	A Numerical Approach to the Micromechanics of Fibre-Reinforced Laminae : The Micromechanics Analysis Tool—MMAT v1.0 / / by Andreas Öchsner, Resam Makvandi
	Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
	ISBN	9783031674884 303167488X
	Edizione	[1st ed. 2024.]
	Descrizione fisica	1 online resource (105 pages)
	Collana	Advanced Structured Materials, , 1869-8441 ; ; 218
	Altri autori (Persone)	MakvandiResam
	Disciplina	620.105
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di contenuto	Introduction -- Prediction of Elastic Properties of Laminae -- Micromechanics Analysis Tool – MMAT v1.0 -- Application Examples -- Source Codes.
Sommario/riassunto	This book treats the micromechanics of laminae, i.e., the prediction of the macroscopic mechanical lamina properties based on the mechanical properties of the constituents, i.e., fibers and matrix. The focus is on unidirectional lamina which can be described based on orthotropic constitutive equations. In detail, predictions for the modulus of elasticity in and transverse to the fiber direction, the major Poisson's ratio, as wells as the in-plane shear modulus are provided. The mechanics of materials approach, the elasticity solutions with contiguity after Tsai, and the Halpin-Tsai relationships, are presented in detail. Composite materials, especially fiber-reinforced composites, are gaining increasing importance since they can overcome the limits of many structures based on classical engineering materials. Particularly the combination of a matrix with fibers provides far better properties than the single constituents alone. A typical basic layer, the so-called lamina, can be composed of unidirectional fibers which are embedded in a matrix. In a second step, layers of laminae may be stacked under different fiber angles to a so-called laminate, which reveals—depending on the stacking sequence—different types of anisotropy/isotropy. A Python-based computational tool is provided, the so-called Micromechanics Analysis Tool (MMAT v1.0) to easily predict the elastic properties. The tool runs in any standard web browser and offers a user-friendly interface with many graphical representations of the elastic properties as a function of the fiber volume fraction.