If you are looking for Screen Paver, follow this link: <u>www.screenpaver.com</u>.

The Laminator Classical Analysis of Composite Laminates

This is a mirror site for The Laminator. You can either use this site or the main Laminator website here: <u>www.thelaminator.net</u>

Go straight to the <u>download and registration</u> links. Program support: <u>support@thelaminator.net</u>

What's New - February 10, 2004

Version 3.5 Released

• Added a micromechanics calculator to estimate lamina properties given the fiber and matrix properties that make up the lamina.

The Laminator is an engineering program written for Windows 95/98/Me/NT4/2000/XP that analyzes laminated composite plates according to classical laminated plate theory. Input consists of ply material properties, material strengths, ply fiber orientation and stacking sequence, mechanical loads and/or strains, and temperature and moisture loads. Output consists of apparent laminate material properties, ply stiffness and compliance matrices, laminate "ABD" matrices, laminate loads and mid-plane strains, ply stresses and strains in global and material axes, and load factors for ply failure based on Maximum Stress, Maximum Strain, Tsai-Hill, Hoffman, and Tsai-Wu failure theories. A micromechanics calculator is also included for estimating lamina properties for given fiber and matrix properties.

This software can be downloaded and evaluated before purchase. It is fully functional except for the following operations: Opening and Saving input files, Printing and Saving output files, and saving User Materials to the library. These features will be enabled once the program has been purchased.

Price: \$29 for single-user license. Multi-user discounts available.

Below is a screen shot of the program, followed by download and registration links.

	operties		💊 Add/Edi	it User Library		
inter nun	nber of materials: 1	▼ Material	Add/Edit I	User Material		
inter the	ply material properties or us	e the Material Library:	User Mat	erial 1 💌 🔍 Er	nglish C Metric	
Mat	ID E1	E2 (Material N	ame: M55J/RS3		
1		.392E+006 7.444	Property [Data		
1.0	2.0032+007	.53227000 7.444		the second s	E1 (in/in/F): 0.000E+	-000
			1			
	The Laminator - Class	ical Analysis of Con	and the second se			
F	ile Edit Library Analys		-			
	Sattinge Materiale Stree	anth I awwn I Loads	Micromeck	nanics About Registratio		
		igar Layap Loads				
	Fiber Property Input			Lamina Property Output		
	Fiber Property	Value		Calcula	ate Properties	
•	Long. Modulus, E1f	33.0E+06		Lamina Property	Value	
	Trans. Modulus, E2f	2.4E+06	_			
	Shear Modulus, G12f	3.6E+06		Long. Modulus, E1	2.005E+007	
	Poisson, v12f	0.2		Trans. Modulus, E2	1.392E+006	
ram F	Therm. Exp., CTE1f	-0.2E-06		Shear Modulus, G12	7.444E+005	
	Makin Deserve locate			Long. Poisson, v12	0.2560	
	Matrix Property Input	<u>т</u>		Trans. Poisson, v21	0.0178	
	Matrix Property	Value		Therm. Exp., CTE1	8.328E-008	
	Modulus, Em	0.62E+06		Therm. Exp., CTE2	1.812E-005	
		0.23E+06		Mois. Exp., CME1	0.0040	
	Shear Modulus, Gm	0.34		Copy to Mat'l Tables	Mat_ID 1 🔻	1
	Shear Modulus, Gm Poisson, vm	0.34				-
	10 12/05	22.7E-06		Save to Library	as 💿 English 🤇	

Download The Laminator here: The Laminator (Version 3.5, 1.0 Mb),

or from an alternate site here: Alternate Site

and then register The Laminator here:



or, after installation, see the information on the Registration tab, or in the help file, for other registration options.

Composite Materials Software Review of The Laminator (older version).

For other composite material resources, visit these links:

Composite Materials at composite.about.com.

The Composite Materials Handbook (MIL-HDBK-17) at www.mil17.org

Email: support@thelaminator.net

Another shareware program by the author is <u>Screen Paver</u>, which is a Windows 9x/Me/NT4/2000/XP slide show screen saver that will display an unlimited number of your own jpeg, png, or bitmap images from local and/or network directories. It can also function as a manual slide show.