

# EXAMPLE: CREATE COMPOSITE MODEL USING MSC.PATRAN

## ■ Step 1: create composite material

- ◆ In MSC.Patran Materials menu create new 2D orthotropic material
- ◆ Under Input Properties... enter material data

The screenshot shows the MSC.Patran Materials dialog box with the 'Create' action selected. The 'Material Name' is 'Lamina'. The 'Description' is 'Date: 16-Jan-03 Time: 10:08:08'. The 'Input Properties' dialog box is open, showing the 'Constitutive Model' as 'Linear Elastic'. The 'Property Name' is 'Value'. The 'Input Properties' dialog box has the following fields:

| Property Name            | Value |
|--------------------------|-------|
| Elastic Modulus E1       | 4000  |
| Elastic Modulus E2       | 100   |
| Poisson Ratio $\nu_{12}$ | 0.25  |
| Shear Modulus G12        | 1.000 |
| Shear Modulus G23        | 1.000 |
| Shear Modulus G13        | 1.000 |
| Density                  |       |
| Thermal Expn. Coeff E1   |       |
| Thermal Expn. Coeff E2   |       |
| Structural Damping Coeff |       |
| Reference Temperature    |       |

The 'Temperature Dependent Variable Fields' and 'Current Constitutive Models' sections are also visible.

# Msc Patran Composite Module Manual

**S Nieto**



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MSC/PATRAN MacNeal-Schwendler Corporation,1996      **MSC Nastran 2012 Demonstration Problems Manual** MSC Software,2011-11-12      **Superelements User's Guide** MSC Software,2012-03-30      Micromechanics Analysis Code Post-Processing (Macpost) User Guide. 1.0 National Aeronautics and Space Administration (NASA),2018-06 As advanced composite materials have gained wider usage the need for analytical models and computer codes to predict the thermomechanical deformation response of these materials has increased significantly Recently a micromechanics technique called the generalized method of cells GMC has been developed which has the capability to fulfill this goal To provide a framework for GMC the Micromechanics Analysis Code with Generalized Method of Cells MAC GMC has been developed As MAC GMC has been updated significant improvements have been made to the post processing capabilities of the code Through the MACPOST program which operates directly within the MSC PATRAN graphical pre and post processing package a direct link between the analysis capabilities of MAC GMC and the post processing capabilities of MSC PATRAN has been established MACPOST has simplified the production printing and exportation of results for unit cells analyzed by MAC GMC MACPOST allows different micro level quantities to be plotted quickly and easily in contour plots In addition meaningful data for X Y plots can be examined MACPOST thus serves as an important analysis and visualization tool for the macro and micro level data generated by MAC GMC This report serves as the user's manual for the MACPOST program Goldberg Robert K and Comiskey Michele D and Bednarczyk Brett A Glenn Research Center USER MANUALS COMPUTER PROGRAMS

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