



Workbook for Introduction to Composite Materials Design

Ever J Barbero

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Presenting a new set of 125 solved problems and projects to supplement the Examples and Exercises available in the textbook Introduction to Composite Materials Design, CRC Press (2011). This is a companion to that textbook, with frequent cross-referencing guiding the reader to the equations, figures, tables, and specific sections of the textbook relevant for understanding every part of the solution to each of the 125 problems. This workbook does not contain solutions for the Exercises at the end of the chapters in the textbook. Instead, this workbook offers a completely new set of problems, accompanied by detailed step-by-step solutions. These include additional explanations, new figures, and new references to popular design handbooks, material property data, and other sources from the literature. As well as solved problems, this workbook features several complete term-paper ideas in Chapters 2 (Materials) and 3 (Processing), including a brief introduction to the solution of each term-paper, and a few citations as a starting point for further study. The Appendix contains a number of project ideas challenging enough to be assigned as semester-long team projects. At the end of each chapter, additional challenge exercises with simple answers, instead of full detailed solutions, present an additional opportunity for the reader to master the subject. Most problems are solved by hand, showing every step, with all numerical values substituted into equations from the textbook, ending with the numerical answer to the problem. Wherever computer code is helpful for completing the calculations, the code has been written and displayed using the free, open source language Scilab(TM), similar to MATLAB(R). A few problems are also solved using the free on-line application CADEC (<http://cadec-online.com>). Contents Introductory Problems Materials Projects Processing Projects Micromechanics Problems Ply Mechanics Problems Macromechanics Problems Strength Problems Damage Problems Textile-reinforced composite Problems Beam Problems Plate and Stiffened Panel Problems Shell Problems Strengthening of Reinforced Concrete Problems Bibliography More info at <http://barbero.cadec-online.com/icmd/workbook>

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