

Practical Electrician Course Volume 8



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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 36 pages. Original publisher: Aberdeen Proving Ground, MD : Army Research Laboratory, 2008 OCLC Number: (OCoLC)318683915 Subject: Composite materials. Excerpt: . . . the 3-D stresses in each element. The RVE is then characterized by analysis of the macrolevel stresses across the entire RVE, which are calculated by weighted averaging of the microstresses across the RVE volume. By applying known independent unit strain cases and evaluating the resulting macrostresses, one can completely determine the constitutive matrix. In this approach, structural stiffness coefficients are computed directly from the micromechanical models, and no underlying assumptions or approximations are needed. The RVE is subjected to macroscopic stresses () which are related to macroscopic strains () according to the following equation: . (1) C The constitutive matrix C must be evaluated to define this correlation. To completely determine C , a single unit strain is applied and all other deformation terms are set to zero in each of the cases shown in table 4. Displacements are applied using periodic boundary conditions. The periodic displacement boundary conditions isolate the mechanical effects of application of unit strains or curvatures and ensure the repeatability of deformations. Thus, the RVE is not only repeatable as a representative geometry, but is also mechanically repeatable in that each RVE has an identical response to strains and curvatures regardless of the location of that RVE in a textile plate or component. Note that displacements u, v, or w correspond to axial directions x, y, and z, respectively. Table 4. Periodic displacement boundary conditions. $u(b, y, z) - v(b, y, z) - w(x, y, h) - u(x, a, z) - v(x, a, z) - w(x, a, z) - w(\dots$



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