

# E-Learning: Planar EM in Depth - Part 2

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This five-part video continues the study of the EM environment in Microwave Office software.

- Part 1 starts by reviewing what the LPF file is. (The LPF file was covered in detail in the first part of this series on the planar EM environment.) The STACKUP, which is used for creating an EM project, is usually placed in the Global Definitions page.
- Part 2 describes how materials are defined in the STACKUP block. Dielectrics and conductor settings are explained, including advanced settings.
- Part 3 demonstrates how to set the thickness and material properties of a polygon by assigning it a material setting defined in the Materials tab. (This should not be confused with the Material Definitions tab of Part 2, which is where bulk material properties are set.)
- Part 4 explains how default boundary conditions are set in the STACKUP. Different simulators interpret these boundary settings differently. Attention is paid to impedance boundary conditions, especially the approximate open setting.
- Part 5 looks at the Enclosure tab, which has the grid setting. When the grid affects the mesh is examined (it depends on the simulator). The differences between the EM grid and the schematic layout grid are explained. The video concludes by showing where the default settings for EM are set.

The entire video is approximately 1 hour in length.

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Experienced User and/or Specialized Curriculum - Planar EM in Depth II