

HPM Field Characteristics Of A Building

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HPM field characteristics ($|E|$ peak, for example) of buildings are studied for feasibility in accurately predicting EMI effects. The effects of drive waveform design on a wide range of characteristics are investigated using CEM simulation models of a building. The electromagnetic field characteristics can be contrasted to a free-field study to highlight the effect of structural features present in the building. Regions of interest and their definitions are studied versus the field characteristics. A range of antenna drive waveform parameters are investigated while antenna orientation/position remains fixed.