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Flames, a London Phantasy Volume 2

By -

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Excerpt: . . . technology for detecting the human presence in concealed environments, made the evaluation of the human body radar signature a problem of great interest. Such models are very useful in designing and predicting the performance of radar systems for human presence detection. 3. 1

Computational Grids As mentioned in section 2, most FDTD algorithms operate on a three-dimensional rectangular grid made of elementary cells. Each cell is assigned the dielectric properties of the material which occupies that region in space. Therefore, the objects need to be described by a volumetric mesh (as opposed to surface integral equation methods, where only a description of the surface bounding an object is necessary). For the human body modeling we used two different meshes, described in figure 2a and 2b. We found the mesh in figure 2a (that we call the fat man) on a Web site maintained by the U. S. Air Force Research Laboratory, RF Radiation Branch (Brooks Air Force Base) (...

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