

**“A hybrid MoM and UTD simulation model for the performance estimation of switched parasitic arrays in indoor environments”, pp.236-240**

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**Abstract** – A simulation model for deterministic channel modeling in indoor environments is used to estimate the performance of switched parasitic arrays. The model is a hybrid combination of the Method of Moments (MoM) and the Uniform Theory of Diffraction (UTD). The type of smart antennas incorporated in the model belongs to the category of switched beam arrays. Simulations are conducted to show the improvement achieved in terms of Bit-Error-Rate (BER) levels, compared with directional and omni-directional antennas. The electromagnetic model, accompanied by a BER estimation technique, provides a system designer with a useful tool for assessing the performance of antenna arrays in realistic indoor environments.