Abstract:
This contribution deals with the application of the Method of Moment-Finite Difference Time Domain (MOM-FDTD) method, the Transmission Line Matrix-Integral Equation (TLM-IE) method and the Adapted Radiating Boundary (ARB) method to Electromagnetic Compatibility (EMC) problems. The essential theoretical aspects of the MOM-FDTD, TLM-IE and ARB methods are briefly described. The manner in which EMC problems can be modeled using the hybrid techniques is presented. Results are reported for the evaluation of the field radiated by a monopole antenna through an aperture into a shielded enclosure. Further developments of the hybrid methods are then discussed.