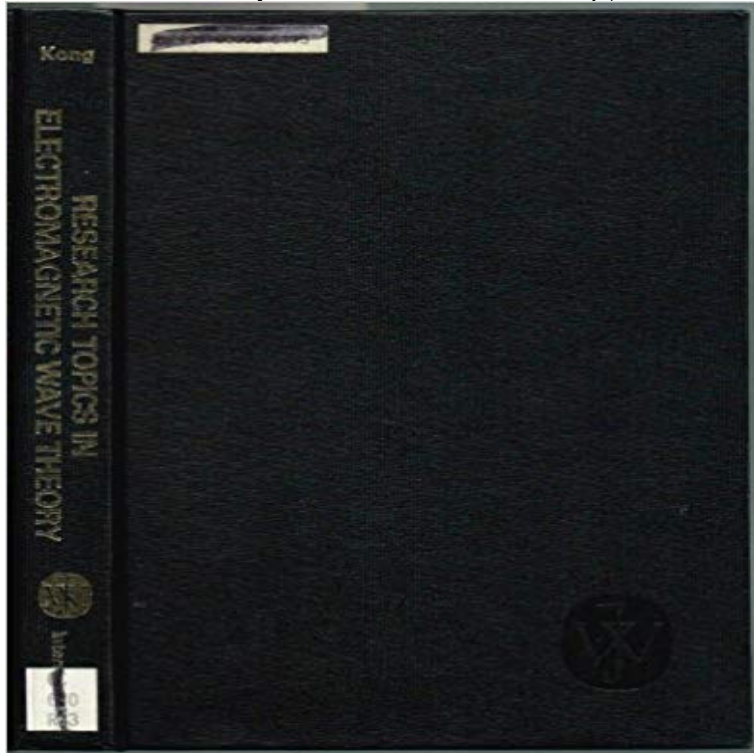


Research Topics in Electromagnetic Wave Theory



Reviews diverse current applications of electromagnetic wave theory, particularly those of interest in aerospace and defense research. Uses the topic of random media to model the ionosphere and the earth terrain with applications to pulse distortion and microwave remote sensing. Studies inhomogeneous plasmas and magnetized ferrites for the propagation, reflection, and transmission of electromagnetic waves with a variational formalism and a coordinate invariant method, and from the point of view of linear mode conversion. Treats result sensing based on microwave radiometer for earth terrain and line-of-sight method for atmosphere parameters. Examines the interaction of electromagnetic fields with biological bodies. In the antenna field, coverage encompasses the topics of broadband antenna arrays, dipole radiation in stratified media, insulated linear antennas, and offset fuel reflector antennas.

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