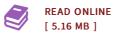


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Phase Array Antenna on Silicon

By Ji, Taeksoo

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Design, Fabrication, Characterization | Demand for broadband wireless communication serviceshas been increasing explosively, driving the surge of research and development activities for futurewireless communication systems with higher data ratesand increased functionality. During the past fewyears, smart (or adaptive) antenna systems adoptingthese array systems have been developed forcommercial as well as military use to suppressmultipath fading, delay spread and cochannelinterferences, resulting in better quality of services. However, traditional hybrid array antennasmay be not appropriate for constructing a largephased array antenna since it generally requiresseveral thousand elements fed by a phase shifter aswell as a switch for every antenna element, which iscomplex in nature. This book places emphasis on theimplementation of a phased array antenna system onsilicon utilizing the monolithic microwave integratedcircuit (MMIC) technology. This new approach to theintegration of a phase array antenna system shouldprovide professionals in MMIC and Silicon Technologyfields with a basic view for realizing smart antennasystems with an excellent performance | Format: Paperback | Language/Sprache: english | 180 gr | 220x150x6 mm | 108 pp.



Reviews

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