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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 services has been increasing explosively, driving the surge of research and development activities for future wireless communication systems with higher data rates and increased functionality. During the past few years, smart (or adaptive) antenna systems adopting these array systems have been developed for commercial as well as military use to suppress multipath fading, delay spread and cochannel interferences, resulting in better quality of services. However, traditional hybrid array antennas may be not appropriate for constructing a large phased array antenna since it generally requires several thousand elements fed by a phase shifter as well as a switch for every antenna element, which is complex in nature. This book places emphasis on the implementation of a phased array antenna system on silicon utilizing the monolithic microwave integrated circuit (MMIC) technology. This new approach to the integration of a phase array antenna system should provide professionals in MMIC and Silicon Technology fields with a basic view for realizing smart antenna systems with an excellent performance | Format: Paperback | Language/Sprache: english | 180 gr | 220x150x6 mm | 108 pp.



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