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Nota di contenuto	Synthetic Instruments.- Resistive Diode Frequency Multipliers -- Planar Directional Couplers and Filters.- Triple Balanced Mixers -- Zero Bias Schottky Power Detectors.- Integrated Front End Assemblies. - Summary.- Zusammenfassung.
Sommario/riassunto	Michael Hrobak studied hybrid integrated front end modules for high frequency measurement equipment and especially for synthetic automatic test systems. Recent developments of innovative, critical millimeter-wave components like frequency multipliers, directional couplers, filters, triple balanced mixers and power detectors are illustrated by the author separately and in combination. Contents Synthetic Instruments Resistive Diode Frequency Multipliers Planar Directional Couplers and Filters Triple Balanced Mixers Zero Bias Schottky Power Detectors Integrated Front End Assemblies Target Groups Scientists and students in the field of electrical engineering with main emphasis on high frequency technology Engineers and Practitioners dealing with the development of micro- and millimeter- wave measurement instruments About the Author Dr. Michael Hrobak

is with the Microwave Department of the Ferdinand-Braun-Institut (FBH), Berlin, Germany, where he is involved in the development and measurement of monolithic integrated circuits using indium phosphide (InP) double heterojunction bipolar transistors (DHBT). His research interests are in the field of planar realizations of linear and nonlinear broadband components, including directional couplers and filters, balanced mixers, frequency multipliers and power detectors.

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