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gain access to practical high frequency engineering knowledge with this comprehensive and expertly compiled one stop resource it provides you with essential pa classic works in rf engineering combiners couplers transformers and magnetic materials artech books ieee xplore power dividers also power splitters and when used in reverse power combiners and directional couplers are passive devices used mostly in the field of radio technology they couple a defined amount of the electromagnetic power in a transmission line to a port enabling the signal to be used in another circuit this article provides the fundamentals of three commonly used types of rf power divider combiners resistive hybrid and wilkinson using examples from susumu anaren macom and analog devices it discusses their specifications and common applications enabling designers to make intelligent device selection including implementation combiners are used to combine power from two or more sources a typical use is to combine power from two high power amplifiers to obtain a higher power than would be otherwise be available dividers divide power so that the power from an amplifier can be routed to different parts of a circuit in summary power combiners play a fundamental role in rf and microwave systems offering the ability to combine multiple input signals into one output with increased power by understanding the different types their working principles and applications it becomes clear how significant power combiners are in our increasingly wireless world in this chapter the basic properties of three port and four port networks are presented as well as a variety of different combiners transformers and directional couplers for application in rf and microwave transmitters

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