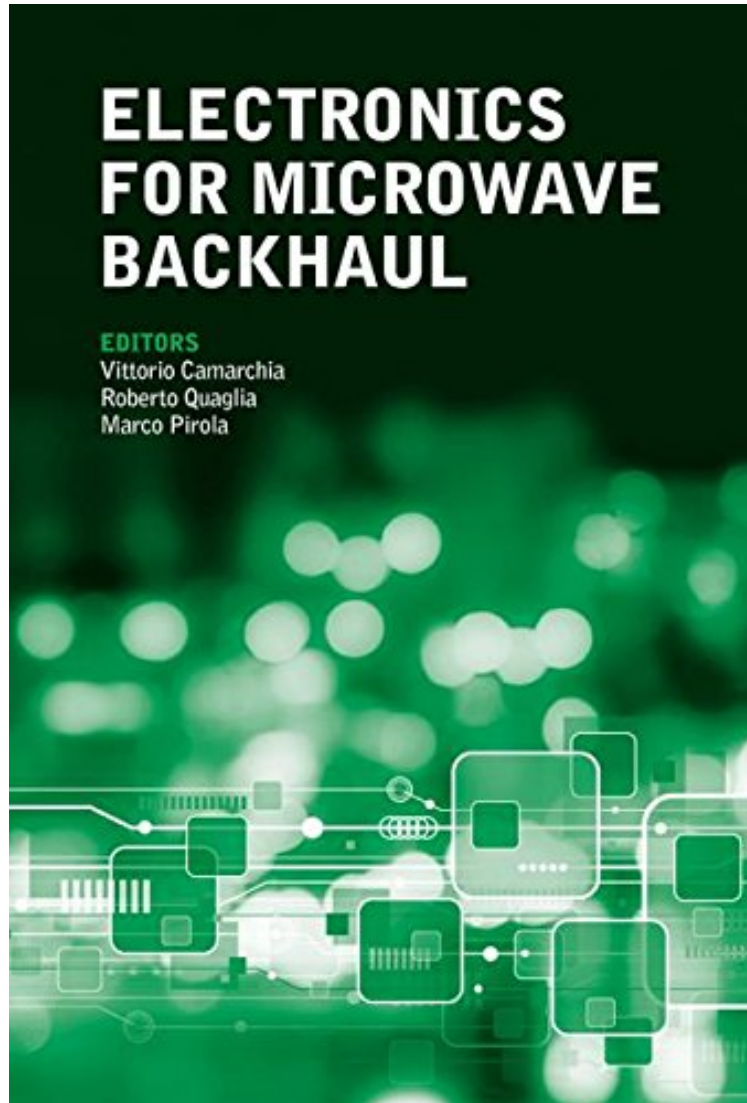


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Backhaul is an important area for todays microwave engineers to focus on with the continuous growth in the mobile device market and the essential function it has in the entire network infrastructure. This timely new resource presents an overview of the electronics of mobile network backhaul. Infrastructure planning, architecture evolution, digital

controls, and countermeasures are all presented highlighting the building blocks of specific backhaul features. Tx and Rx design and antenna requirements are covered while examining the overall construction of the microwave radio hardware blocks. Single blocks are explored: the antenna, the analog transmitter and receiver, and the modem, recalling the most important aspects of transport networks and microwave link dimensioning.

**About the Author** Vittorio Camarchia is an associate professor of electronics with the Electronics and Telecommunication Department, Politecnico di Torino, Turin, Italy. He received the Laurea degree in electronic engineering and his Ph. D. in electronic and communication engineering from Politecnico di Torino, Turin, Italy. Roberto Quaglia is a researcher at the Center for High Frequency Engineering at Cardiff University. Previously he worked for Huawei Technologies in Milano, Italy as a MMIC designer for millimeter-wave radios. He received the Laurea degree and his Ph. D. from Politecnico di Torino, Turin, Italy. Marco Pirola is an Associate Professor of electronics in the Electronics and Telecommunication Department, Politecnico di Torino, Italy. He received his Ph.D. from Politecnico di Torino, Turin, Italy. He was previously a visiting researcher at the Hewlett Packard Microwave Technology Division, Santa Rosa, CA.