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Sommario/riassunto	For the analysis and optimization of the picosecond pulsed terahertz radiation generated by electron storage rings or other pulsed sources, ultra-fast detectors are required which are able to resolve picosecond dynamic processes directly in the time domain. In this book, a new direct terahertz detector technology based on the high-temperature superconductor YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> has been developed which opens new routes in the analysis of picosecond time-domain processes with a wide dynamic range.