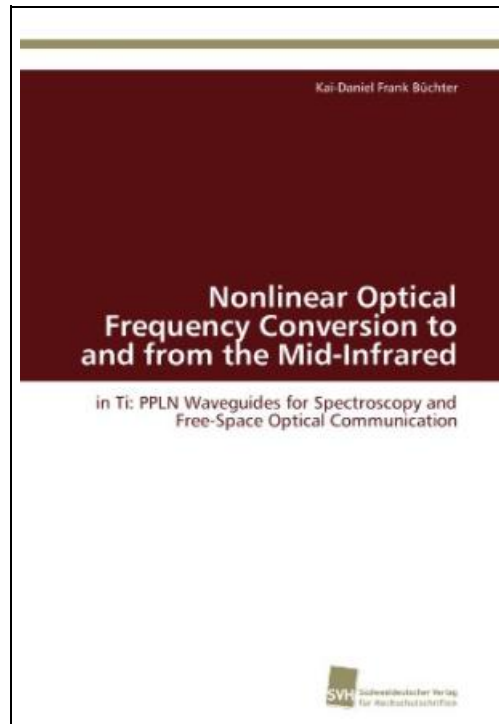


Nonlinear Optical Frequency Conversion to and from the Mid-Infrared



Filesize: 6.27 MB

Reviews

Very helpful to any or all category of folks. It is written in simple phrases rather than difficult to understand. It has been developed in an exceptionally simple way and is particularly just after I finished reading this pdf in which it basically transformed me, modifying the way in my opinion.

(Hank Runte)

NONLINEAR OPTICAL FREQUENCY CONVERSION TO AND FROM THE MID-IR



Condition: New. Publisher/Verlag: Südwestdeutscher Verlag für Hochschulschriften | in Ti: PPLN Waveguides for Spectroscopy and Free-Space Optical Communication | Mid-infrared (MIR) sources and detectors are of strong interest. Due to a lack of favorable lasers, frequency conversion using nonlinear optical difference-frequency generation (DFG) has been a popular means to generate MIR radiation using near-IR (NIR) sources. On the detector side, optical frequency conversion can be used to realize a hybrid up-conversion detector (UCD). In this case, radiation is converted from the MIR to the NIR or even visible, where detectors with exceptional properties are available. Such devices, based on Ti-indiffused waveguides in periodically poled Lithium Niobate, were investigated. Over 10 mW of tunable radiation at either 3.4 μ m (3.8 μ m) were generated, using pump lasers at 1064 nm (1100 nm) and 1550 nm wavelength. Similarly, UCDs based on either DFG or SFG were thoroughly characterized, which convert radiation within a few nm bandwidth around a design wavelength, and can be temperature-tuned by tens of nm. The devices were combined in order to realize free-space optical transmission lines. This way, MIR-spectroscopy of methane was performed with NIR instrumentation only. Also, it was shown that transmission through turbulent channels can be improved. | Format: Paperback | Language/Sprache: english | 132 pp.



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