



## Nonlinear Interactions of femtosecond pulses with transparent media

By Sai Santosh Kumar, Raavi

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Third order nonlinear optical phenomenon in glasses, crystals and organic molecules | This book, Nonlinear Interactions of femtosecond pulses with transparent media, is an attempt to disseminate few important results obtained recently that enables the readers to understand the rich physics involved in the light-matter interactions in femtosecond (fs) regime. With the high intensities available from fs laser pulses, the subject becomes much richer, as the pulse itself affects and is affected by the material it propagates through, in dramatic ways. Interactions representing both these classes form the subject of this book. Considering the vast nature of this subject we limit ourselves in this book to the second and third order nonlinear phenomena namely, supercontinuum generation, multiphoton absorption and surface enhanced third order processes demonstrated with four-wave mixing at surfaces. | Format: Paperback | Language/Sprache: english | 248 pp.

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