



Induced Focusing and Optical Solitons

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | The increasing demand of high band-width can only fulfilled by all optical technologies. The Self-focusing is a non-linear optical process induced by the change in refractive index profile of material exposed to high intensity laser beam. Hence a high power optical beam can create a waveguide through a nonlinear medium which can then focus the beam. Further, owing to the nonlinearity of the medium, it is possible to guide one beam by another beam. This process is called induced focusing. Therefore, it appears that the phenomenon of induced focusing may be very useful in controlling and manipulating the light by the light. The Optical Solitons are the selftrapped light pulses/beam that propagate without broadening and distortion. They arise as a consequence of balance between dispersion/diffraction and nonlinearity. The Solitons could be bright or dark. These Solitons could be useful in long rang optical communication. This book discuss the topics like slab wave guide, self-focusing, induced focusing, and optical dark Solitons. | Format: Paperback | Language/Sprache: english | 96 pp.



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