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Optical Solitons Theory and Experiment Optical Solitons Theory and Experiment Taylor, J. R. 1996-08-01 00:00:00 BOOK REVIEWS Optical Solitons Theory and Experiment J. R. Taylor, Editor, xv 449 pages, illustrations, subject index, and references following each chapter. From the Cambridge Studies in Modern Optics Series, Number 10. ISBN 0521-40548-3.

Optical Solitons Theory and Experiment, Optical ...

In optics, the term soliton is used to refer to any optical field that does not change during propagation because of a delicate

balance between nonlinear and linear effects in the medium. There are two main kinds of solitons: spatial solitons: the nonlinear effect can balance the diffraction. The electromagnetic field can change the refractive index of the medium while propagating, thus creating a structure similar to a graded-index fiber. If the field is also a propagating mode of the guide it

Soliton (optics) - Wikipedia

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Optical Solitons: Theory and Experiment by James Roy Taylor

We report on the existence of families of stable spatial solitons in a saturable nonlinear medium characterized by a refractive index with asymmetric distribution of gain and loss. The properties of the nonlinear modes bifurcating from the eigenvalue of the underlying linear problem are thoroughly investigated. The eigenvalue ranges in the power-eigenvalue diagrams for different gain/loss ...

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energizes the light pulses.

Soliton - Wikipedia

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