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BOOK REVIEWS Optical Solitons Theory

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and Experiment J. R. Taylor, Editor, xv
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From the Cambridge Studies in Modern
Optics Series, Number 10. ISBN
0521-40548-3. Cambridge University
Press, 40 West 20th Street, New York
10011-4211 1994 \$99.95 hardbound.
Reviewed by Roger J. Arguello, Hughes

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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

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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 ...

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Optical Solitons | SpringerLink

This book provides an overview of current theoretical and experimental research in the area of temporal solitons in optical fibers. These solitons are nondispersive light pulses based on the nonlinearity of the fiber's refractive index. With the advent of low loss single-mode optical fibers, the applications to

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Book Review: Optical Solitons Theory and Experiment ...

interests are in coding theory, error-correction in networks and wireless communication." Keywords Optical solitons, nonlinear optical fibers. (left) V C Kuriakose retired as professor from

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the Department of Physics, Cochin University of Science and Technology, Kochi and currently is CSIR Emeritus Scientist. His areas of research interest
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This book describes both the theoretical

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and experimental aspects of optical soliton generation, soliton properties and the application of optical solitons to all-optical high-bit-rate communications. Only temporal optical solitons in fibres are considered.

Optical Solitons edited by J. R. Taylor

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This book describes both theoretical and experimental aspects of optical soliton generation and of soliton properties. The basic theory of soliton generation in fiber is described, numerical studies of nonlinear propagation effects in fibers are considered, as well as soliton-soliton interactions, the effects of high order dispersion and birefringence on soliton

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Optical Solitons: Theory and Experiment by James Roy Taylor

Some recently discovered optical solitons or related novel phenomena include 3D light bullets, self-accelerating solitons propagating along curved trajectories, subwavelength plasmonic solitons in nonlinear metamaterials,

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soliton formation and self-induced transparency in nonlinear soft condensed matter, and spatial beam dynamics and optical solitons in nonlinear materials of parity-time (PT ...

Optical spatial solitons: historical overview and recent ...

Solitons are caused by a cancellation of

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nonlinear and dispersive effects in the medium. In this book, the authors discuss the interactions and theoretical and experimental challenges of solitons.

Solitons: Interactions, Theoretical and Experimental ...

P. Li, D. Mihalache, and B. A. Malomed,
"Optical solitons in media with focusing

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and defocusing saturable nonlinearity and a parity-time-symmetric external potential,” arXiv:1804.03314v1 (2018).
P. Li, C. Dai, R. Li, and Y. Gao,
“Symmetric and asymmetric solitons supported by a PT-symmetric potential with saturable nonlinearity: bifurcation, stability and dynamics,” Opt. Express 26

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OSA | Optical solitons in a saturable nonlinear medium in ...

the experimentally verified optical solitons in fiber lasers, including bright solitons, dark solitons, vector solitons, dissipative solitons, dispersion-managed solitons, polarization domain wall solitons, and so on. An outlook for the

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development on the solitons in fiber lasers is also provided and discussed.

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