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Optical Solitons in an Inhomogeneous Fiber: From Control to Applications

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Message from the Guest Editors

Optical soliton generation, manipulation, and applications have received significant attention due to their potential applications in various domains. Optical soliton transmission in several nonlinear waveguides, such as optical fibers, metamaterials, and photonic crystal fiber, have been experimentally and theoretically investigated as a way to explore their dynamical behaviors.

In this context, we welcome research and review articles dealing with nonlinear Schrödinger models, with the aim of providing readers with an improved understanding of nonlinear optical soliton transmission in various nonlinear optical systems.

Topics of interest include, but are not limited to:

- Nonlinear Schrödinger models;
- Dynamical properties of optical solitons;
- Optical soliton control and management;
- Photonic crystal fiber;
- Modulation instability in nonlinear waveguides;
- Supercontinuum generation in nonlinear optical fibers;
- Applications of optical solitons in photonics.