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Autore	Raju Thokala Solomon
Titolo	Controllable Nonlinear Waves in Graded-Index Waveguides (GRIN) // by Thokala Solomon Raju
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ISBN	9789819704415
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (85 pages)
Collana	SpringerBriefs in Applied Sciences and Technology, , 2191-5318
Disciplina	531.1133
Soggetti	Nonlinear optics Telecommunication Optics Signal processing Nonlinear Optics Microwaves, RF Engineering and Optical Communications Applied Optics Signal, Speech and Image Processing
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Controllable nonautonomous waves in tapered graded-index waveguides -- Controllable optical similaritons in GRIN by tailoring of tapered profile -- Butterfly-shaped and dromion-like waves in GRIN waveguid -- Controlling optical similaritons in GRIN waveguide under the action of cubic-quintic nonlinear media -- Dynamics of optical rogue waves in a GRIN waveguide with different background beams -- Controlling similaritons in two-dimensional GRIN waveguide through Riccati parameter -- Symbiotic rogons in (2+1)-dimensional GRIN waveguide -- Conclusions and future perspectives.
Sommario/riassunto	This book highlights the dynamical behavior of self-similar waves in graded-index waveguides in (1+1)-dimensions and (2+1)-dimensions. The mechanism to control these optical similaritons by tailoring the tapering profile is presented. Various nonlinear waves like rogons, butterfly-shaped, and dromion-like waves and their controllable behavior are discussed in detail. The phenomenon of unbreakable Parity-Time symmetry of some of these waves has been delineated for

different variety of solvable potentials. Compression of these exotic waves has been demonstrated for dispersion decreasing fiber and periodic management of dispersion and nonlinearity parameters. Competing cubic-quintic nonlinearity scenario and its potential implication on the dynamics of these similaritons has been described in detail. Symbiotic self-similar rogue waves have been discussed in (2+1)-dimensional garded-index waveguide. The book also includes numerical simulations that complement these analytical insights.

2. Record Nr.

Autore

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Descrizione fisica

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Disciplina

Soggetti

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Singh Anoop

China's Economy in Transition : : From External to Internal Rebalancing // Anoop Singh, Malhar Nabar, Papa N'Diaye

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Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Contents; Acknowledgments; Contributors; Abbreviations; Introduction and Overview; PART I: A SHIFT IN FOCUS: FROM EXTERNAL TO INTERNAL IMBALANCES; 1 An End to China's Imbalances?; 2 Investment in China: Too Much of a Good Thing?; 3 China's Rapid Investment, Potential Output, and Output Gap; 4 Determinants of Corporate Investment in China: Evidence from Cross-Country Firm-Level Data; 5 Interest Rates, Targets, and Household Saving in Urban China; PART II: IMPLICATIONS FOR CHINA'S TRADING PARTNERS; 6 Implications for Asia from Rebalancing in China 7 Investment-Led Growth in China: Global Spillovers 8 The Spillover Effects of a Downturn in China's Real Estate Investment; PART III: POLICY IMPLICATIONS; 9 Chronicle of a Decline Foretold: Has China Reached the Lewis Turning Point?; 10 How Pro-Poor and Inclusive Is China's Growth? A Cross-Country Perspective; 11 De-Monopolization toward Long-Term Prosperity in China; 12 Transforming China: Insights from the Japanese Experience of the 1980's; 13 The Next Big Bang: A Road Map for Financial Reform in China; 14 Summation; Index; A; B; C; D; E; F; G; H; I; J; K; L; M; N; O; P; R; S; T; U; V; W; X
Sommario/riassunto	China's current account surplus has declined to around one-quarter the

peak reached before the global financial crisis. While this is a major reduction in China's external imbalance, it has not been accompanied by a decisive shift toward consumption-based growth. Instead, the compression in its external surplus has been accomplished through increasing fixed investment so that it is now an even higher share of China's national economy. This increasing reliance on fixed investment as the main driver of China's growth raises questions about the durability of the compression in the external surplus and the sustainability of the current growth model that has had unprecedented success in lifting about 500 million people out of poverty over the last three decades. This volume examines various aspects of the rebalancing process underway in China, highlighting policy lessons for achieving stable, sustainable, and inclusive growth.
