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Autore	Saha Asit
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Sommario/riassunto	This book covers the latest advancements and applications of nonlinear dynamics in various fields of science and engineering, presenting a curated selection of peer-reviewed contributions at the 2nd International Conference on Nonlinear Dynamics and Applications (ICNDA 2024) at Sikkim Manipal Institute of Technology (SMIT). Organized by the Department of Mathematics, SMIT, SMU, this international conference provides a platform for scientists, researchers, and inventors to share their findings and exchange ideas in the ever-evolving field of nonlinear dynamics. This book comprises three

volumes. Volume 1 focuses on the investigation of nonlinear waves and plasma dynamics. It covers topics such as strong Landau damping, electron plasma waves, ion-acoustic waves, dusty plasma, dust-acoustic waves, dust-ion-acoustic waves, kinetic Alfvén waves, solitary wave, shock waves, periodic wave, cnoidal wave, superperiodic wave, soliton, resonance, lump soliton, multi-soliton, breather wave, upper hybrid wave, atmospheric internal wave, mathematical and analytical methods, quantum and relativistic plasmas, wave instabilities and interactions, fractional and complex systems, nonlinear optical phenomena, Gaussian laser beam, chaos and multistability, and other specific plasma studies.

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