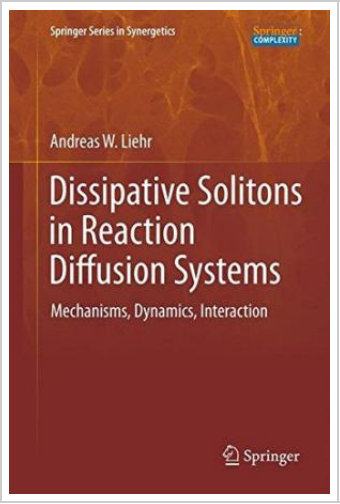

Dissipative Solitons in Reaction Diffusion Systems: Mechanisms, Dynamics, Interaction

By Andreas Liehr

Springer-Verlag Berlin and Heidelberg GmbH & Co. K. Hardcover. Book Condition: New. Hardcover. 212 pages. Dimensions: 9.4in. x 6.3in. x 0.7in.Why writing a book about a specialized task of the large topic of complex systems And who will read it The answer is simple: The fascination for a didactically valuable point of view, the elegance of a closed concept and the lack of a comprehensive disquisition. The fascinating part is that field equations can have localized solutions exhibiting the typical characteristics of particles. Regarding the field equations this book focuses on, the field phenomenon of localized solutions can be described in the context of a particle formalism, which leads to a set of ordinary differential equations covering the time evolution of the position and the velocity of each particle. Moreover, starting from these particle dynamics and making the transition to many body systems, one considers typical phenomena of many body systems as shock waves and phase transitions, which themselves can be described as field phenomena. Such transitions between different level of modelling are well known from conservative systems, where localized solutions of quantum field theory lead to the mechanisms of elementary particle interaction and from this to field equations describing...

Reviews

This publication might be well worth a read, and much better than other. It really is simplified but excitement inside the 50 % of the book. You will not feel monotony at whenever you want of the time (that's what catalogues are for concerning when you check with me).

-- ***Imogene Bergstrom***

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