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Theory of nonlinear lattices. (English) Zbl 0465.70014

Springer Series in Solid-State Sciences, Vol. 20. Berlin-Heidelberg-New York: Springer-Verlag. X, 205 p., 38 figs. DM 69.00; \$ 31.40 (1981).

For a scan of this review see the [web version](#).

MSC:

70F10 *n*-body problems

70-02 Research exposition (monographs, survey articles) pertaining to mechanics of particles and systems

70K99 Nonlinear dynamics in mechanics

65Z05 Applications to the sciences

70G10 Generalized coordinates; event, impulse-energy, configuration, state, or phase space for problems in mechanics

Cited in **4** Reviews
Cited in **180** Documents

Keywords:

nonlinear lattices; waves in lattices; nonlinear forces; cnoidal waves; solitons; multisoliton solutions; discrete wave equation; inverse scattering method; periodic potential; three-particle system