

Название публикации:

Nonlinear concave spiral autowaves and their applications

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Аннотация:

Works devoted to concave spiral autowaves are reviewed. Concave spiral phase autowaves do not transfer energy in self-oscillating active media. Concave spiral autowaves that transfer energy are predicted and found in certain inhomogeneous active media. Ways of studying them mathematically are developed. Applications of spiral concave autowaves that transfer energy in different natural processes (in physics, chemistry, hydrodynamics, biology, and meteorology) are considered.

Ключевые слова:

Active media, Autowaves, Inhomogeneous active media, Natural process, Self-oscillating, Spiral phase, Transfer energy, Physics