Casas-Vazquez, J.; Lebon, G.
Stability of thermodynamic systems. Proceedings of the Meeting Held at Bellaterra School of Thermodynamics, Autonomous University of Barcelona, Bellaterra (Barcelona), Spain, September 1981. (English) Zbl 0496.73001

For a scan of this review see the web version.

**MSC:**

- 74A15 Thermodynamics in solid mechanics
- 76E99 Hydrodynamic stability
- 80A17 Thermodynamics of continua
- 74-02 Research exposition (monographs, survey articles) pertaining to mechanics of deformable solids
- 76R99 Diffusion and convection
- 76F99 Turbulence
- 74S30 Other numerical methods in solid mechanics (MSC2010)
- 93D05 Lyapunov and other classical stabilities (Lagrange, Poisson, $L^p$, $L^p$, etc.) in control theory
- 74F15 Electromagnetic effects in solid mechanics
- 92D40 Ecology
- 76W05 Magnetohydrodynamics and electrohydrodynamics
- 37D45 Strange attractors, chaotic dynamics of systems with hyperbolic behavior
- 82B35 Irreversible thermodynamics, including Onsager-Machlup theory
- 74H55 Stability of dynamical problems in solid mechanics
- 80A32 Chemically reacting flows

**Keywords:**

- Thermodynamic systems; Proceedings; Meeting; Bellaterra/Spain; Barcelona; thermodynamic stability; mathematical methods in stability theory; hydrodynamical instabilities; nonequilibrium instabilities; hydrodynamic fluctuations near Rayleigh-Benard instability; transition to turbulence; heat flux in convective instabilities; unstable flows of concentrated suspensions; fluctuations in electromagnetic systems; chemistry; dissipative structures; oscillations in reaction-diffusion models; with or without time-delay

Edited by FIZ Karlsruhe, the European Mathematical Society and the Heidelberg Academy of Sciences and Humanities
© 2021 FIZ Karlsruhe GmbH