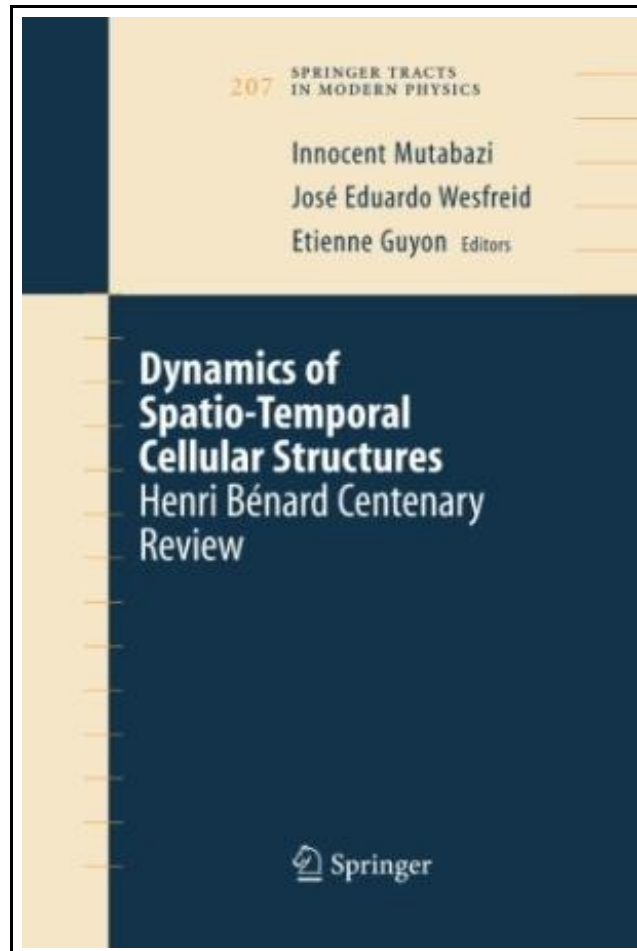


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DYNAMICS OF SPATIO-TEMPORAL CELLULAR STRUCTURES: HENRI BENARD CENTENARY REVIEW (PAPERBACK)



Springer-Verlag New York Inc., United States, 2014. Paperback. Book Condition: New. 2006 ed.. 235 x 155 mm. Language: English . Brand New Book ***** Print on Demand *****.On March 15, 1901, Henri Benard defended his thesis entitled *Les Tourbillons cellulaires dans une nappe liquide propageant de la chaleur par convection en régime permanent* at the University of Paris, Sorbonne. The results contained in this thesis have been at the origin of recent intensive research activities on cellular structures observed in many physicochemical systems far from equilibrium: instabilities, spatio-temporal patterns, chaos, and turbulence. The French Physical Society organized a scientific meeting to commemorate the centenary of Benard's thesis, at the Ecole Supérieure de Physique et Chimie Industrielles de Paris (ESPCI). This meeting, which gathered approximately one hundred scientists and graduate students working in nonlinear science, was honored by the presence of the director of the ESPCI, Professor Pierre-Gilles de Gennes, Nobel laureate in physics (1991), who gave the opening talk. At the conference, lectures were given by internationally recognized scholars who have contributed to the development of Benard's work: J.E. Wesfreid, P. Manneville, Y. Pomeau, M. Velarde, J. Gollub, M. Provansal, G. Nicolis, B. Castaing, and P. Coulet. A poster session and a round table on further developments in nonlinear physics were organized. In the present book, we have extended the list of contributors in order to cover all the aspects involved with Benard's work, with a main focus on thermal convection, on Benard-Marangoni instability and on Benard-von Karman instability. We would like to thank Dr. Hans Koelsch from Springer for the publication of this monography in the Springer Tracts in Modern Physics series. We acknowledge a critical reading by C.D. Mitescu and a very helpful technical assistance from Olivier Crumeyrolle.

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