

10

Referências bibliográficas

1. FIEDLER-FERRARA, N. E CINTRA DO PRADO, C. – **Caos – uma introdução**, Ed. Edgard Blücher Ltda, São Paulo, 1994, 402 p.
2. PEITGEN, H. O., JÜRGENS, H. e SAUPE, D. – **Fractals for the classroom**, Vols. 1 e 2, Springer-Verlag, 1992, 500p.
3. DEVANEY, R. L. – **A first course in chaotic dynamical system**, Addison-Wesley, 1992, 302 p.
4. NUSSENZVEIG, M. (1995) – **Introdução aos sistemas complexos**, in Complexidade e Caos (Nussenzveig, M., ed.), Ed. UFRJ, 276 p.
5. BAK, P., TANG, C. e WIESENFELD, K. (1987) – **Self-organized criticality: an explanation of $1/f$ noise**, Phys. Rev. Lett. 59, 381.
6. BAK, P., TANG, C. e WIESENFELD, K. (1988) – **Self-organized criticality**, Phys. Rev. A. 38, 364.
7. GOULD, S. J. e ELDREDGE, N. (1977) – **Punctuated equilibrium: the time and mode of evolution reconsidered**, Paleobiology 3, 114.
8. BAK, P. e SNEPPEN, K. (1993) – **Punctuated equilibrium and criticality in a simple model of evolution**, Phys. Rev. Lett. 71, 4083.
9. KAUFFMAN, S. (1992) – **The origins of order: self-organization and selection in evolution**, Oxford University Press, Oxford, 1992, 709 p.
10. ANDERSON, P. W., ARROW, K. J. E PINES, D. (EDS.) – **The economy as an evolving complex system**, Addison-Wesley, 1988.

11. GLEISER, I. – **Caos e complexidade**, Ed. Campus, 2002, 281 p.
12. SORNETTE, D. (2003) - <http://www.financialsense.com/transcriptions/Sornette.htm>
13. KEILIS-BOROK, V. I. E MALINOVSKAYA, L. N. (1964) – **One regularity in the occurrence of strong earthquakes**, J. Geophys. Res. 69, 3019.
14. TURCOTTE, D. L. – **Fractals and chaos in geology and geophysics**, Cambridge University Press, Cambridge, 1997, 398 p.
15. RUNDLE, J. E KLEIN, W. (1995) – **New ideas about the physics of earthquakes**, Reviews of Geophysics, Supplement, 283.
16. VERE-JONES, D., ROBINSON, R. e YANG, W. (2001)– **Remarks on the accelerated moment release model: problems of model formulation, simulation and estimation**, Geophys. J. Int. 144, 517.
17. MAIN, I. G. (1996) – **Statistical physics, seismogenesis and seismic hazard**, Reviews of Geophysics 34, 4.
18. PILIPENKO, P. – **Dialectica de lo contingente y de lo necesario**, Progreso, Moscú, 1986, 304 p.
19. CORBISIER, R.–**Enciclopédia filosófica**, Civilização Brasileira, 1987, 300 p.
20. HELD, G., SOLINA, D., KEANE, D., HAAG, W., HORN, P.E GRINSTEIN, G.(1990) – **Experimental study of critical mass fluctuations in an evolving sandpile**, Phys. Rev. Lett. 65, 1120.
21. BAK, P. – **How nature works – The science of self-organized criticality**, Oxford University Press, Oxford, 1997, 212 p.

22. FRETTE, V., CHRISTENSEN, K., MALTHER-SØRENSEN, A., FEDER, J., JØSSANG, T. E MEAKIN, P.(1995) – **Avalanche dynamics in a pile of rice**, Nature 379, 49.
23. OLAMI, Z., FEDER, H. J. e CHRISTENSEN, K. (1992) – **Self-organized criticality in a continuous, nonconservative cellular automaton modeling earthquakes**, Phys. Rev. Lett. 68, 1244.
24. BAK, P. e TANG, C. (1989) - **Earthquakes as a self-organized critical phenomenon**, J. Geophys. Res. 94, 15635.
25. SCHOLZ, C. H. – **The mechanics of earthquakes and faulting**, Cambridge Univ. Press, Cambridge, 1990, 433 p.
26. NATURE DEBATES, 1999
(<http://www.nature.com/nature/debates/earthquake>).
27. GEOPHYSICAL JOURNAL INTERNATIONAL 131, 1997 – Edição especial sobre previsão de terremotos.
28. RINALDO, A., RODRIGUEZ-ITURBE, I., RIGON, R., IJASZ-VASQUEZ, E. E BRAS, R. (1993) - **Self-organized fractal river networks**, Phys. Rev. Lett. 70, 822.
29. SORNETE, D. (2002) – **Predictability of catastrophic events: material rupture, earthquakes, turbulence, financial crashes and human birth**, Proc. of the National Academy of Sciences USA 99, suppl, 2522.
30. JOHANSEN, A. (1997) – **Discrete scale invariance and other cooperative phenomena in spatially extended systems with threshold dynamics**, PhD thesis, Niels Bohr Institute, University of Copenhagen.
31. FEIGENBAUM, J. E FREUND, P.O. (1996) – **Discrete scale invariance in stock markets before crashes**, Int. J. Modern Phys. B 10, 27, 3737.

32. JAUMÉ, S. C. E SYKES, L. R. (1999) – **Evolving towards a critical point: a review of accelerating seismic moment / energy release prior to large and great earthquakes**, Pure Appl. Geophys. 155, 279.
33. GARCIMARTÍN, A., GUARINO, A., BELLÓN, L. E CILIBERTO, S. (1997) – **Statistical properties of fracture precursors**, Phys. Rev. Lett. 79, 3202.
34. CALLEN, H. B.-**Thermodynamics and an introduction to thermostatistics**, John Wiley & Sons, 1985, 512 p.
35. <http://tsallis.cat.cbpf.br/biblio.htm>
36. LANDSBERG, P. T. (1984) –**Is equilibrium always an entropy maximum?**, J. Stat. Phys. 35, 159.
37. TSALLIS, C. (1997) - **Lévy distributions**, Physics World 10, 42.
38. MONTROLL, E. W. E SHLESINGER, M. F. (1983) – **Maximum entropy formalism, fractals, scaling phenomena and 1/f noise: a tail of tails**, J. Stat. Phys. 32, 209.
39. JAYNES, E. T. (1957)–**Information theory and statistical mechanics**, Phys. Rev. 106, 620.
40. FELLER, W. – **An introduction to probability theory and its applications**, Vol.1, John Wiley & Sons, 1968, 528 p.
41. TSALLIS, C., SOUZA, A.M.C. E MAYNARD, R. (1995) – **Derivation of Lévy – type anomalous superdiffusion from generalized statistical mechanics**, in Lévy flights and related topics in Physics (Shlesinger, M. F., Zaslavsky, G. M. e Frisch, U., eds.), Springer, Berlin, 269.
42. CEMAL ERINGEN, A. (1992) – **Vistas of nonlocal continuum physics**, Int. J. Engng. Sci. 30, 10, 1551.

43. CEMAL ERINGEN, A. – **Continuum physics**, Vol.4, Academic Press, New York, 1976.
44. TSALLIS, C. (1988) – **Possible generalization of Boltzmann-Gibbs statistics**, J. Stat. Phys 52, 479.
45. TSALLIS, C., LEVY, S.V.F., SOUZA, A.M.C. E MAYNARD, R. (1995) – **Statistical mechanical foundation of the ubiquity of Lévy distributions in nature**, Phys. Rev. Lett.75, 3589 (Erratum: Phys. Rev. Lett. 77, 5442 (1996)).
46. CURADO, E.M. E TSALLIS, C. (1991) –**Generalized statistical mechanics: connection with thermodynamics**, J. Phys. A 24, L69 (Corrigenda: 24, 3187 (1991) and 25, 1019 (1992)).
47. TSALLIS, C., MENDES, R.S. E PLASTINO, A.R. (1998) – **The role of constraints within generalized nonextensive statistics**, Physica A 261, 534.
48. JACKSON, F. (1909) – Mess. Math. 38, 57.
49. JACKSON, F. (1910) – Quart. J. Pure Appl. Math. 41, 193.
50. ABE, S. (1997) – **A note on the q-deformation - theoretic aspect of the generalized entropies in nonextensive physics**, Phys. Lett. A 224, 326.
51. TSALLIS, C. (1999) – **Nonextensive statistics: theoretical, experimental and computational evidences and connections**, Braz. J. Phys. 29, 1.
52. TSALLIS, C. (1995) – Comment on “**Thermodynamic stability conditions for the Tsallis and Rényi entropies**” by J.D. Ramshaw, Phys. Lett. A 206, 389.
53. GUERBEROFF, G. E RAGGIO, G. (1996) – Remarks on “**Thermodynamic stability conditions for the Tsallis and Rényi entropies**” by J.D. Ramshaw, Phys. Lett. A 214, 313.

54. ALY, J.J. (1993) – **Minimum energy/ maximum entropy states of a self – gravitating system**, in Proceedings of the Meeting held at Aussois, France, (Combes, F. and Athanassoula, E., eds.), Publications de l’Observatoire de Paris, 19.
55. PLASTINO, A. E PLASTINO, A. (1993) – **Stellar polytropes and Tsallis’ entropy**, Phys. Lett. A 174, 384.
56. PLASTINO, A. E PLASTINO, A. (1994)–**Information theory, approximate time dependent solutions of Boltzmann’s equation, and Tsallis’ entropy**, Phys. Lett. A 193, 251.
57. KANIADAKIS, G., LAVAGNO, A. E QUARATI, P. (1996) – **Generalized statistics and solar neutrinos**, Phys. Lett. B 369, 308.
58. KANIADAKIS, G., LAVAGNO, A. E QUARATI, P. (1998) – **Nonextensive statistics and solar neutrinos**, Astrophysics and Space Science 258, 145.
59. ZANETTE, D. E ALEMANY, P. (1995) – **Thermodynamics of anomalous diffusion**, Phys. Rev. Lett. 75, 366.
60. PLASTINO, A. E PLASTINO, A. (1995)–**Nonextensive statistical mechanics and generalized Fokker-Planck equation**, Physica A 222, 347.
61. TSALLIS, C. E BUKMAN, D. J. (1996) – **Anomalous diffusion in the presence of external forces: exact time-dependent solutions and their thermostistical basis**, Phys. Rev. E 54, R2197.
62. COMPTE, A. E JOU, D. (1996) – **Non-equilibrium thermodynamics and anomalous diffusion**, J. Phys. A 29, 4321.
63. BOGHOSIAN, B. (1996)–**Thermodynamic description of the relaxation of two-dimensional turbulence using Tsallis statistics**, Phys. Rev. E 53, 4754.

64. ANTENEODO, C. E TSALLIS, C. (1997) – **Two-dimensional turbulence in pure-electron plasma: a nonextensive thermostistical description**, J.Mol. Liq. 71, 255.
65. BOGHOSIAN, B. (1999) – **Navier-Stokes equation for generalized thermostistics**, in Nonextensive Statistical Mechanics and Thermodynamics (Salinas, S.R.A. e Tsallis, C., eds.), Braz. J. Phys. 29, 91.
66. SOUZA, A.M.C. E TSALLIS, C. (1997) – **Student's t- and r-distributions: unified derivation from an entropic variational principle**, Physica A 236, 52.
67. TSALLIS, C., DEUTSCHER, G. E MAYNARD, R. (1996) – **On probabilities and information – the envelope game**, Braz. J. Prob. and Stat. 10, 103.
68. COSTA, U.M.S., LYRA, M.L., PLASTINO, A.R. E TSALLIS, C. (1997) – **Power-law sensitivity to initial conditions within a logistic-like family of maps: fractality and nonextensivity**, Phys. Rev. E 56, 245.
69. LYRA, M.L. E TSALLIS, C. (1998) – **Nonextensivity and multifractality in low-dimensional dissipative systems**, Phys. Rev. Lett. 80, 53.
70. TIRNAKLI, U., TSALLIS, C. E LYRA, M.L. (1999) – **Circular-like maps: sensitivity to the initial conditions, multifractality and nonextensivity**, Eur. Phys. J. B 11, 309.
71. PAPA, A. E TSALLIS, C. (1998) – **Imitation games: power-law sensitivity to initial conditions and nonextensivity**, Phys. Rev. E 57, 3923.
72. TAMARIT, F.A., CANNAS, S. E TSALLIS, C. (1998) – **Sensitivity to initial conditions and nonextensivity in biological evolution**, Eur. Phys. J. B 1, 545.

73. ANTENEODO, C. E TSALLIS, C. (1998) – **Breakdown of exponential sensitivity to initial conditions: role of the range of interactions**, Phys. Rev. Lett. 80, 5313.
74. FEIGENBAUM, M. J. (1978) – **Quantitative universality for a class of nonlinear transformations**, J. Stat. Phys. 19, 25.
75. FEIGENBAUM, M.J. (1980) – **Universal behavior in nonlinear systems**, Los Alamos Science 1, 4.
76. TSALLIS, C., PLASTINO, A. E ZHENG, W. (1997) – **Power-law sensitivity to initial conditions – new entropic representation**, Chaos, Solitons and Fractals 8, 885.
77. ABE, S. E RAJAGOPAL, A. K. (2003) – **Revisiting disorder and Tsallis statistics**, Science 300, 249.
78. PLASTINO, A. (2003) – **Revisiting disorder and Tsallis statistics**, Science 300, 250.
79. LATORA, V., RAPISARDA, A. E ROBLEDO, A. (2003) – **Revisiting disorder and Tsallis statistics**, Science 300, 250.
80. ABE, S. E OKAMOTO, Y (EDS) - **Nonextensive statistical mechanics and its applications**, Lecture notes in physics, Springer-Verlag, Heidelberg, 2001.
81. TSALLIS, C. (2002) – **Nonextensive statistical mechanics: a brief review of its present status**, Anais da Academia Brasileira de Ciências 74, 393. (também em arXiv: cond-mat/0205571).
82. STANLEY, E. – **Introduction to phase transitions and critical phenomena**, Oxford University Press, Oxford, 1971, 336 p.
83. YEOMANS, J. M. – **Statistical mechanics of phase transitions**, Clarendon Press, 1992, 164 p.

84. SORNETTE, D., JOHANSEN, A. E BOUCHAUD, J. -P. (1996) – **Stock market crashes, precursors and replicas**, J. Phys.I France 6, 1, 167.
85. ANIFRANI, C., LE FLOC'H, SORNETTE, D. E SOUILLARD, B. (1995) – **Universal log-periodic correction to renormalization group scaling for rupture stress prediction from acoustic emissions**, J. Phys.I France 5, 6, 631.
86. SORNETTE, D. (1997) – **Generic mechanisms for hierarchies**, Proceedings of the International Conference on Complex Systems (Y. Bar-Yam, ed.), Nashua, NH.
87. FEDER, J. – **Fractals**, Plenum publishers, N.Y., 1988, 283 p.
88. SORNETTE, D. (1998)–**Discrete scale invariance and complex dimensions**, Physics Reports 297, 239.
89. BOWMAN,D., OUILLON,G., SAMMIS,C., SORNETTE,A. E SORNETTE, D. (1998) – **An observational test of the critical earthquake concept**, J. Geophys. Res.103, B6, 24359.
90. BUFPE, C. G. E VARNES, D. J. (1993) – **Predictive modeling of the seismic cycle of the greater San Francisco bay region**, J. Geophys. Res. 98, B6, 9871.
91. VARNES, D. J. E BUFPE, C. G. (1996) – **The cyclic and fractal seismic series preceding an m_b 4.8 earthquake on 1980 February 14 near the Virgin Islands**, Geophys. J. Int. 124, 149.
92. VOIGHT, B. (1988) – **A method for prediction of volcanic eruptions**, Nature 332, 125.
93. VOIGHT, B. (1989) – **A relation to describe rate-dependent material failure**, Science 243, 200.

94. CORNELIUS, R. R. E VOIGHT, B. (1995) – **Graphical and PC-software analysis of volcano eruption precursors according to the Materials Failure Forecast Method (FFM)**, J. Volcanol. Geotherm. Res. 62, 295.
95. RABOTNOV, Y. N. – **Creep problems in structural members**, North-Holland, Amsterdam, 1969.
96. TURCOTTE, D. L. (1985) – **Collapse of loaded fractal trees**, Nature 313, 671.
97. TURCOTTE, D. L. (1999) – **Seismicity and self-organized criticality**, Phys. Earth Planet. Int. 111, 275.
98. SORNETTE, D. – **Why stock markets crash: critical events in complex financial systems**, Princeton University Press, Princeton, 2002, 456 p.
99. JOHANSEN, A. E SORNETTE, D. (2000) – **Critical ruptures**, Eur. Phys. J. B 18, 163.
100. BEN-ZION, Y. E LYAKHOVSKY, V. (2002) – **Accelerated seismic release and related aspects of seismicity patterns on earthquake faults**, Pure Appl. Geophys. 159, 2385.
101. FUKUZONO, T. (1985) – **A new method for predicting the failure time of a slope**, Proc. 4th Int. Conf. and Field Workshop on Landslides, Tokyo, 145.
102. FUKUZONO, T. (1990) – **Recent studies on time prediction of slope failure**, Landslide News 4, 9.
103. GOMBERG, J., BODIN, P., SAVAGE, W. E JACKSON, M. E. (1995) – **Landslide faults and tectonic faults, analogs?: the Slumgullion earthflow**, Colorado, Geology 23, 1, 41.
104. CROSTA, G. E AGLIARDI, F. (2002) – **How to obtain alert velocity thresholds for large rockslides**, Phys. Chem. Earth 27, 1557.

105. MANDELBROT, B. B. (1989) – **Multifractal measures, specially for the geophysicist**, Pure Appl. Geophys. 131, 1/2, 5.
106. TAKAYASU, H. – **Fractals in physical science**, John Wiley & Sons, 1992, 180 p.
107. NEWMAN, W., GABRIELOV, A., DURAND, T., PHOENIX, S. E
TURCOTTE, D.(1994)– **An exact renormalization model for earthquakes and material failure statics and dynamics**, Physica D 77, 1-3, 200.
108. SORNETTE, D. E JOHANSEN, A. (1997) – **Large financial crashes**, Physica A 245, 411.
109. STANLEY, H., AFANASYEV, V., AMARAL, L., BULDYREV, S.,
GOLDBERGER, A., HAVLIN, S., LESCHHORN, H., MAASS, P.,
MANTEGNA, R., PENG, C., PRINCE, P., SALINGER, M., E
VISWANATHAN, G. (1996) – **Anomalous fluctuations in the dynamics of complex systems: from DNA and physiology to econophysics**, Physica A 224, 302.
110. SCHROEDER, M.– **Fractals, chaos, power laws: minutes from an infinite paradise**, Freeman, N.Y., 1991, 429 p.
111. PRESS, W., TEUKOLSKY, S., VETERLING, W. E FLANNERY, B. –
Numerical recipes – the art of scientific computing, Cambridge University Press, Cambridge, 1992, 933 p.
112. KIRKPATRICK, S., GELATT, C. E VECCHI, M.(1983) – **Optimization by simulated annealing**, Science 220, 671.
113. TSALLIS, C. E STARIOLO, D.(1996) – **Generalized simulated annealing**, Physica A 233,395.
114. GLUZMAN, S. E SORNETTE, D. (2002) – **Log-periodic route to fractal functions**, Phys.Rev. E 65, 418.

115. SORNETTE, D. E ZHOU, W. (2002) – **The US 2000 – 2002 market descent: how much longer and deeper?**, Quant. Finance 2, 468.
116. ZHOU, W. –X. E SORNETTE, D. (2002) – **Evidence of a worldwide stock market log- periodic anti-bubble since mid-2000** (disponível em cond-mat/0212010).
117. ZHOU, W. –X. E SORNETTE, D. (2003)–**Renormalization group analysis of the 2000 – 2002 anti-bubble in the US S&P 500 index: explanation of the hierarchy of 5 crashes and prediction** (disponível em physics/0301023).
118. ZHOU, W. –X. E SORNETTE, D. (2003) – **2000 – 2003 real estate bubble in the UK but not in the USA**, Physica A (no prelo).
119. VERMEER, P.A. E DE BORST, R. (1984) – **Non-associated plasticity for soils, concrete and rock**, Heron 29, 3.
120. SLUYS, L. (1992) – **Wave propagation, localization and dispersion in softening solids**, PhD thesis, Delft University of Technology, Delft, The Netherlands.
121. KHAN, A. H. E HUANG, S. – **Continuum theory of plasticity**, John Wiley & Sons, New York, 1995, 440 p.
122. VALLIAPPAN, S. – **Continuum mechanics – fundamentals**, Balkema, Rotterdam, The Netherlands, 1981, 228 p.
123. DE BORST, R. (1986) – **Non-linear analysis of frictional materials**, PhD thesis, Delft University of Technology, Delft, The Netherlands.
124. BATHE, K.J. – **Finite element procedures in engineering analysis**, Prentice - Hall, New Jersey, 1982.

125. ZIENKIEWICZ, O.C. E TAYLOR, R.L. – **The finite element method**, Vols. 1 e 2, McGraw-Hill, New York, 1991.
126. DESAI, C.S. – **Elementary finite element method**, Prentice-Hall, New Jersey, 1979.
127. OTTER, J.R., CASSEL, A. E HOBBS, R. (1966) – **Dynamic relaxation**, Proc. Instn. Civ. Eng. 35, 633.
128. FIGUEIREDO, R.P. (1991) – **Aplicações da relaxação dinâmica à solução de problemas geotécnicos**, MSc thesis, Pontifícia Universidade Católica do Rio de Janeiro (PUC-RIO), Rio de Janeiro, RJ, 187 p.
129. CASSELL, A. (1976)– **Numerical stability of dynamic relaxation analysis of non-linear structures**, Int. J. Num. Meth. Eng. 10, 1407.
130. LANDAU, L.D. E LIFCHITZ, E. M. – **Théorie de l'élasticité**, Éditions Mir, Moscou, 1967, 206 p.
131. FILONENKO-BORODICH, M. M. – **Theory of elasticity**, Mir Publishers, Moscow, 1968, 388 p.
132. MAIER, G. E PEREGO, U. (1992) – **Effects of softening in elastic-plastic structural dynamics**, Int. J. Num. Meth. Eng. 34, 319.
133. DE ARCANGELIS, L., HANSEN, A., HERRMANN, H. E ROUX, S. (1989) – **Scaling laws in fracture**, Phys. Rev. B 40, 877.
134. SORNETTE, A., DAVY, P. E SORNETTE, D. (1990) – **Growth of fractal fault patterns**, Phys. Rev. Lett. 65, 2266.
135. VELDE, B., MOORE, D., BADRI, A. E LEDESERT, B. (1993) – **Fractal and length analysis of fractures during brittle to ductile changes**, J. Geophys. Res. 98, B7, 11935.

136. SORNETTE, A., DAVY, P. E. SORNETTE, D. (1993) – **Fault growth in brittle-ductile experiment and the mechanics of continental collisions**, J. Geophys. Res. 98, B7, 12111.
137. SORNETTE, D., MILTENBERGER, P. E. VANNESTE, C. (1994) – **Statistical physics of fault patterns self-organized by repeated earthquakes**, Pure Appl. Geophys. 142, 491.
138. HIRATA, T. (1989) – **Fractal dimension of fault systems in Japan: fractal structures and rock fracture geometry at various scales**, Pure Appl. Geophys. 131, 157.
139. HIRIBAYASHI, T., ITO, K. E. YOSHII, T. (1992) – **Multifractal analysis of earthquakes**, Pure Appl. Geophys. 138, 591.
140. BARTON, C. (1995) – **Fractal analysis of scaling and spatial clustering of fractures**, in *Fractals in the Earth Science* (Barton, C. and La Pointe, R., eds.), Plenum Press, NY.
141. KOESTLER, A., MILNES, A. G. E. KELLER, P. (1995) – **Quantification of fault/fracture systems for reservoir simulation – use of systematic data from field analogues**, in *PROFIT – Project Summary Reports* (Olsen et al., eds.), Oslo, Norway.
142. ITO, K. (1992) – **Towards a new view of earthquake phenomena**, Pure Appl. Geophys. 138, 531.
143. HERRMANN, H. E. ROUX, S. (EDS.) - **Statistical models for the fracture of disordered media**, North-Holland, Amsterdam, 1990.
144. POLIAKOV, A. N. B. E. HERRMANN, H. J. (1994) – **Self-organized criticality of plastic shear bands in rocks**, Geophys. Res. Lett. 21, 2143.
145. POLIAKOV, A., HERRMANN, H., PODLADCHIKOV, Y. E. ROUX, S. (1994) – **Fractal plastic shear bands**, *Fractals* 2, 567.

146. CUNDALL, P.A. (1989) – **Numerical experiments on localization in frictional materials**, Ingenieur-Archiv 59, 148.
147. CUNDALL, P.A. E BOARD, M. (1988) – **A microcomputer program for modeling large- strain plasticity problems**, in Numerical Methods in Geomechanics (C. Swoboda, ed.), Balkema, Rotterdam.
148. NAGTEGAAL, J.C., PARKS, D.M. E RICE, J.R. (1974) – **On numerically accurate finite element solutions in fully plastic range**, Comp. Meth. Appl. Mech. Eng. 4, 153.
149. GUTIERREZ, M. – **Generation of fracture patterns from bifurcation theory**, Norwegian Geotechnical Institute Internal Report no. 541004-4, Oslo, Norway, 1997.
150. BENETTIN, G., GALGANI, L.,GIORGILLI, A. E STRELCYN, J. (1980) – **Lyapunov characteristic exponents from smooth dynamical systems and for Hamiltonian systems:a method for computing all of them**, Meccanica 15, 9, 21.
151. SANO, M. E SAWADA, Y. (1985) – **Measurement of Lyapunov spectrum from a chaotic time series**, Phys, Rev. Lett. 55, 1082.
152. WOLF, A., SWIFT, J.B., SWINNEY, H.L. E VASTANO, J. (1985) – **Determining Lyapunov exponents from time series**, Physica D 16, 285.
153. HENTSCHEL, H.G.E. E PROCACCIA, I. (1983) – **The infinite number of generalized dimensions of fractals and strange attractors**,Physica D8,435.
154. HALSEY, T.C., JENSEN, M.H., KADANOFF, L.P., PROCACCIA, I. E SHRAIMAN, B.I. (1986) - **Fractal measures and their singularities: the characterization of strange sets**, Phys. Rev. A 33, 1141.

155. GIORGILLI, A., CASATI, D., SIRONI, L. E GALGANI, L. (1986) – **An efficient procedure to compute fractal dimension by box counting**, Phys. Lett. A 115, 202.
156. LIEBOVITCH, L. E TOTH, T. (1989) – **A fast algorithm to determine fractal dimensions by box counting**, Phys. Lett. A 141, 386.
157. WALSH, J.J. E WATTERSON, J. (1993) – **Fractal analysis of fracture patterns using the standard box-counting technique: valid and invalid methodologies**, J. Struct. Geol. 15, 1509.
158. GRASSBERGER, P. E PROCACCIA, I. (1983) – **Characterization of strange attractors**, Phys.Rev. Lett. 50, 346.
159. GRASSBERGER, P. E PROCACCIA, I. (1983) – **Measuring the strangeness of strange attractors**, Physica D 9, 189.
160. TSALLIS, C.(2000) – **Entropic nonextensivity: a possible measure of complexity**, (disponível em arXiv: cond-mat/0010150).
161. DE BORST, R. (1986) – **Numerical simulation of shear-band bifurcation in sand bodies**, in 2nd Int. Symp. on Numerical Methods in Geomechanics, Ghent, Balkema, Rotterdam.
162. DE BORST, R. (1988) – **Bifurcations in finite element models with a non-associate flow law**, Int. J. Numer. Analit. Meth. Geomech. 12, 99.
163. TYKHONOV, A.N. E ARSÉNINE, V.Y. – **Méthodes de resolution de problèmes incorrects**, Éditions Mir, Moscou, 1977.
164. VISINTIN, A. – **Models of phase transitions**, Progress in nonlinear differential equations and their applications, Birkhäuser, Boston, 1996,322 p.
165. COSSERAT, E. E COSSERAT, F. – **Théorie de corps deformables**, Herman, Paris, 1909.

166. CEMAL ERINGEN, A. (1968) – **Mechanics of micromorphic continua**, in IUTAM Symposium on Mechanics of Generalized Continua (Kröner, E., ed.), Springer-Verlag, Berlin.
167. MÜHLHAUS, H.B. (1989) – **Application of Cosserat theory in numerical solutions of limit load problems**, Ingenieur-Archiv 59, 124.
168. NEEDLEMAN, A. (1988) – **Material rate dependence and mesh sensitivity on localization problems**, Comp. Meth. Appl. Mech. Engng. 67, 69.
169. SLUYS, L.J. E DE BORST, R. (1992) – **Wave propagation and localization in a rate-dependent cracked medium – model formulation and one-dimensional examples**, Int. J. Solids Structures 29, 2945.
170. PIJAUDIER-CABOT, G. E BAZANT, Z. (1987) – **Nonlocal damage theory**, ASCE J. Engng. Mech. 113, 1512.
171. BAZANT, Z.P. E CEDOLIN, L – **Stability of structures**, Oxford University Press, Oxford, 1991.
172. LASRY, D. E BELYTSCHKO, T. (1988) – **Localization limiters in transient problems**, Int. J. Solids Structures 24, 581.
173. MÜHLHAUS, H. E AIFANTIS, E. (1991) – **A variational principle for gradient plasticity**, Int. J. Solids Structures 28, 845.
174. DE BORST, R. E MÜHLHAUS, H. (1991) – **Continuum models for discontinuous media**, Proc. Conf. Fracture Processes in Brittle Disordered Materials (van Mier, J., Rots, J. e Bakker, A., eds.), Chapman and Hall, London
175. BHOWAL, A. (1997) – **Damage spreading in the ‘sandpile’ model of SOC**, Physica A 247, 327.

176. CORAL, A. (1997) – **Complex behavior in slowly driven dynamical systems: sandpiles, earthquakes, biological oscillators**, PhD thesis, Universitat de Barcelona.
177. MORA, P. E PLACE, D. (2003) – **Stress correlation function evolution in lattice solid elasto-dynamic models of shear and fracture zones and earthquake prediction**, Pure Appl. Geophys. (no prelo).
178. MORA, P. E PLACE, D. (2003) – **Accelerating energy release prior to large events in simulated earthquake cycles: implications for earthquake forecasting**, Pure Appl. Geophys. (no prelo).
179. TURCOTTE, D. L. (1999) – **Self-organized criticality**, Rep. Prog. Phys. 62, 10, 1377.
180. DRUCKER, D.C. E PRAGER, W. (1952) – **Soil mechanics and plastic analysis on limit design**, Quart. Appl. Math. 10, 157.
181. HOEK, E. E BROWN, E.T. (1980) – **Empirical strength criterion for rock masses**, J. Geotech. Eng. Div., ASCE, 106 (GT9), 1013.
182. HOEK, E. E BROWN, E. (1988) – **The Hoek-Brown failure criterion – a 1988 update**, Proceedings of the 15th Canadian Rock Mechanics Symposium, October, 31.
183. BIENIAWSKI, Z.P. (1974) – **Estimating the strength of rock materials**, J. South Afr. Inst. Min. Metal. 74, 312.
184. KIM, M.K. E LADE, P.V. (1984) – **Modelling rock strength in three dimensions**, Int. J. Rock Mech. Min. Sci. 21, 21.
185. KACHANOV, L.M. (1974) – **Fundamentals of the theory of plasticity**, Mir Publishers, Moscow.