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If you want to know more
[1] B. Brogliato, Nonsmooth Mechanics, Springer-Verlag, 2000
[2] SICONOS webpage: http://siconos.inrialpes.fr
[3] M. di Bernardo, C. Budd, A.R. Champneys, P. Kowalczyk, A.B. Nordmark, G. Olivar, P.T. Piiroinen, "Bifurcations in Nonsmooth Dynamical Systems", SLAM Review, 2007 (to appear)
[4] M. di Bernardo, C. Budd, A.R. Champneys, P. Kowalczyk, "Piecewise-smooth dynamical systems: Theory and Applications", Springer-Verlag, 2007
just to start with