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g, where fis differentiable but can be nonsmooth, a forward-backward Euler discretization of the differential inclusion $\dot{X}(t) + 3 \tau X_-(t) + r(X(t)) \in g(X(t))$; (1.7) where g is the subdifferential of g , leads to the accelerated proximal gradient method. i.e., a nonsmooth version of (1.5) [11,14]. Convergence rates of forward-backward proximal

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Glocker Ch. and Studer C. Formulation and preparation for Numerical Evaluation of Linear Complementarity Systems. Multibody System Dynamics 13(4):447-463, 2005; Jean M. The non-smooth contact dynamics method. Computer Methods in Applied mechanics and Engineering 177(3-4):235-257, 1999

Non-smooth mechanics - Wikipedia

Special attention is paid to Coulomb friction, both in the planar and spatial case, and to Newtonian impact laws. The third part of the course is concerned with nonsmooth dynamical systems. Numerical methods for the simulation of nonsmooth systems are explained and illustrated with example problems.

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Recent numerical methods for nonsmooth dynamical systems subject to unilateral contact and friction illustrate the topicality of this development. The present article presents a summarizing view at differential-algebraic equations (DAEs) and analyzes how new application fields and corresponding mathematical models lead to innovations both in theory and in numerical analysis for this problem class.

Differential-Algebraic Equations and Beyond: From Smooth ...

Acary V. and Brogliato, B. Numerical Methods for Nonsmooth Dynamical Systems. Applications in Mechanics and Electronics. Springer Verlag, LNACM 35, Heidelberg, 2008. Brogliato B. Nonsmooth Mechanics. Models, Dynamics and Control Communications and Control Engineering Series Springer-Verlag, London, 2016 (third Ed.)