## **Vibro-impact Dynamics**

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Vibro-impact dynamics has occupied a wide spectrum of studies by dynamicists, physicists, and mathematicians. These studies may be classified into three main categories: modeling, mapping and applications. The main techniques used in modeling of vibro-impact systems such as phenomenological modelings, Hertzian models, and non-smooth coordinate transformations developed by Zhuravlev and Ivanov are outlined. One of the most critical situations impeded in vibro-impact systems is the grazing bifurcation. Grazing bifurcation is usually studied through discontinuity mapping techniques, which are very useful to uncover the rich dynamics in the process of impact interaction. This book also considers selected deterministic and stochastic applications of vibro-impact dynamics which cover lumped and continuous systems. One of the most beneficial outcomes of vibro-impact dynamics is the development of impact dampers, which have witnessed significant activities over the last four decades and have been used in several applications. The book is supported by an extensive bibliography which exceeds 1,100 references. EAN/ISBN : 9783642002755 Publisher(s): Springer, Berlin Format: ePub/PDF Author(s): Ibrahim, Raouf A.

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