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                        of the Bouc-Wen Model; 2.1 Introduction; 2.2 BIBO Stability of the
                        Bouc-Wen Model; 2.2.1 The Model; 2.2.2 Problem Statement; 2.2.3
                        Classification of the BIBO-Stable Bouc-Wen Models; 2.2.4 Practical
                        Remarks; 2.3 Free Motion of a Hysteretic Structural System; 2.3.1
                        Problem Statement; 2.3.2 Asymptotic Trajectories; 2.3.3 Practical
                        Remarks; 2.4 Passivity of the Bouc-Wen model
                        2.5 Limit Cases2.5.1 The Limit Case n = 1; 2.5.2 The Limit Case alpha
                        = 1; 2.5.3 The Limit Case alpha = 0; 2.5.4 The Limit Case beta+gamma
                        = 0; 2.6 Conclusion; 3 Forced Limit Cycle Characterization of the Bouc-
                        Wen Model; 3.1 Introduction; 3.2 Problem Statement; 3.2.1 The Class of
                        Inputs; 3.2.2 Problem Statement; 3.3 The Normalized Bouc-Wen Model;
                        3.4 Instrumental Functions; 3.5 Characterization of the Asymptotic
                        Behaviour of the Hysteretic Output; 3.5.1 Technical Lemmas; 3.5.2
                        Analytic Description of the Forced Limit Cycles for the Bouc-Wen
                        Model; 3.6 Simulation Example; 3.7 Conclusion
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Sommario/riassunto	Hysterisis is a system property that is fundamental to a range of engineering applications as the components of systems with hysterisis are able to react differently to different forces applied to them. Control theory is used to model these complex systems and cause them to behave in the desired manner; the Bouc-Wen model is a well-known semi-physical model that is used extensively to describe the hysterisis of systems in the areas of smart structures and civil engineering. The Bouc-Wen model for system hysterisis has increased in popularity due to its capability of capturing in an analytica