Minimax Theorems And Qualitative Properties Of The Solutions Of Hemivariational Inequalities

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Summary : Free minimax theorems and qualitative properties of the solutions of hemivariational inequalities pdf download - boundary value problems which have variational expressions in form of inequal ities can be divided into two main classes the class of boundary value prob lems bvps leading to variational inequalities and the class of bvps leading to hemivariational inequalities the first class is related to convex energy functions and has being studied over the last forty years and the second class is related to nonconvex energy functions and has a shorter research life beginning with the works of the second author of the present book in the year 1981 nevertheless a variety of important results have been produced within the framework of the theory of hemivariational inequalities and their numerical treatment both in mathematics and in applied sciences especially in engineering it is worth noting that inequality problems i e bvps leading to variational or to hemivariational inequalities have within a very short time had a remarkable and precipitate development in both pure and applied mathematics as well as in mechanics and the engineering sciences largely because of the possibility of applying and further developing new and efficient mathematical methods in this field taken generally from convex and or nonconvex nonsmooth analy sis the evolution of these areas of mathematics has facilitated the solution of many open questions in applied sciences generally and also allowed the formu lation and the definitive mathematical and numerical study of new classes of interesting problems

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