



Set-Valued Force Laws

By Glocker, Christoph

Book Condition: New. Publisher/Verlag: Springer, Berlin | Dynamics of Non-Smooth Systems | As one of the oldest natural sciences, mechanics occupies a certain pioneering role in determining the development of exact sciences through its interaction with mathematics. As a matter of fact, there is hardly an area in mathematics that hasn't found an application of some form in mechanics. It is thus almost inevitable that theoretical methods in mechanics are highly developed and laid out on different levels of abstraction. With the spread of digital processors this goes as far as the implementation in commercial computer codes, where the user is merely confronted on the surface with the processes that run in the background, i. e. mechanics as such: in teaching and research, as well as in the context of industry, mechanics is much more, and must remain much more than the mere production of data with the help of a processor. Mechanics, as it is talked about here, traditionally includes a wide spectrum, ranging from applied mechanics, analytical and technical mechanics to modeling and experimental mechanics, as well as technical realization. It also includes the subdisciplines of rigid body mechanics, continuum mechanics, or fluid mechanics,...



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