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The fracture toughness of rock is an important parameter for modeling fracture failure and can be measured from laboratory tests. Gunsallus and Kulhawy (1984) and Bhagat (1985) experimentally found that Mode I fracture toughnesses of several types of rocks and soils are directly proportional to their tensile strengths. Experimental data show that a very soft sedimentary rock (including coal), having a low tensile strength, has either a very low fracture toughness or a very low resistance to ...

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Computational modeling of fracture constitutes an indispensable tool not

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only to predict the failure of cracking structures but also to shed insights into understanding the fracture processes of many materials such as concrete, rock, ceramic, metals, and biological soft tissues.

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Furthermore, it is expected that cavitation fracture modeling methodology reported here will find use in the analysis and modeling of other types of failure such as ductile and fatigue failure. This chapter presents an excellent example of interdisciplinary collaborative research and it advocates further such collaboration in its conclusion.

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CFRAC 2017 - Sciencesconf.org

As the population ages, hip fractures and heart failure increase in prevalence.^{1, 2} Heart failure prevalence is also increasing in hospitalized patients.³ Indeed, hospitalizations involving heart failure as an active issue tripled in the last 30 years.⁴ Heart failure has been associated with an increased risk for hip fracture,^{5, 6} and previous studies report a 6%^{20%} prevalence of preoperative ...

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