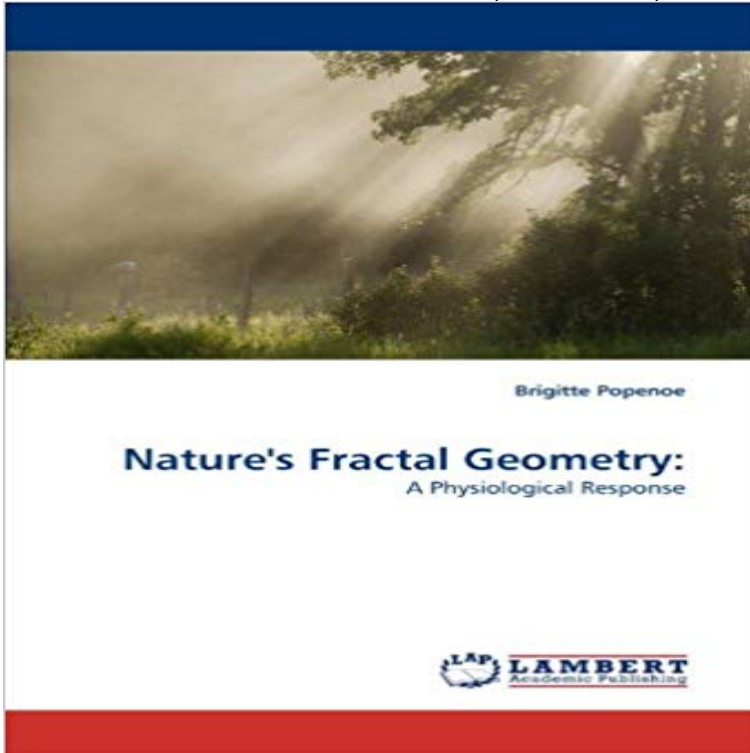


Natures Fractal Geometry:: A Physiological Response



Fractal forms found in nature have the potential to create a resonant aesthetic, which may also provide restorative effects from stress. This study tested 36 participants for physiological effect during stress and recovery while viewing four art images, a Pollock, a savannah, an abstract and a plain grey field. When compared to a grey field the Pollack image with a fractal dimension of 1.5 was shown to be restorative by physiological response as measured by blood volume amplitude during stress. When compared to a grey field the savannah with a fractal dimension of 1.4 though not statistically significant, yielded a trend toward restoration. No statistical differences were found between the savannah and Pollock images; supporting the hypothesis that the underlying fractal form, not just nature, provides for a restorative effect. Fractal forms provide designers a tool for creating spaces which can conform to aesthetic and cultural preference.

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at the Albert Einstein . Responding to this challenge, I conceived .. Plate 13 1::I JEAN PERRINS CLASSIC DRAWINGS OF PHYSICAL **Cantorian Fractal Spacetime and Quantum-like Chaos in Neural** (11) Do standard variables (of mechanics and physiology) suffice? . Responses to issues (a) (c) have been shaped traditionally by the .. The emergence of nonlinear dynamics and fractals in mathematics and . abstractly in a geometric language devoid of standard geometric properties such as distance and angle. **Fractal dimension in pharmacology - ScienceDirect** Fractals in art and nature: why do we like them? SPIE Electron Imaging. 2013 Perceptual and physiological responses to Jackson Pollocks fractals. 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