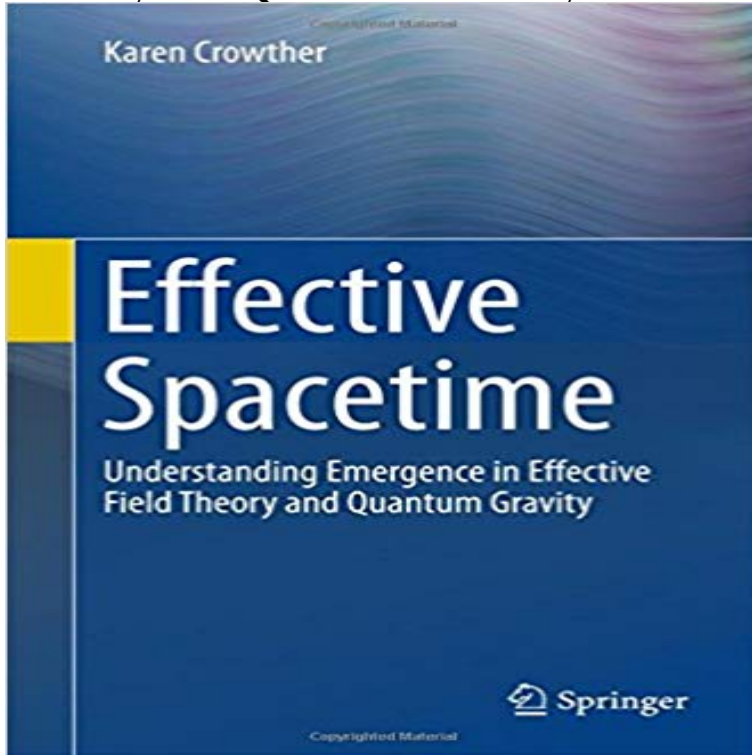


Effective Spacetime: Understanding Emergence in Effective Field Theory and Quantum Gravity



This book discusses the notion that quantum gravity may represent the breakdown of spacetime at extremely high energy scales. If spacetime does not exist at the fundamental level, then it has to be considered emergent, in other words an effective structure, valid at low energy scales. The author develops a conception of emergence appropriate to effective theories in physics, and shows how it applies (or could apply) in various approaches to quantum gravity, including condensed matter approaches, discrete approaches, and loop quantum gravity.

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