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Matters (Springer Series In Solid-State Sciences) By  
Shun-Qing Shen**

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We present a short pedagogical introduction to the physics of Dirac materials, restricted to graphene and two-dimensional topological insulators. We start with

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Engineering Dirac electrons emergent on the surface of a topological insulator on a spherical surface of a topological insulator, equation is modified to

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The surfaces of certain band insulators called topological insulators can be described conveniently described by the relativistic Dirac equation for massless

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## **Shun- qing shen - google scholar citations**

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Sep 27, 2010 Abstract: We present a general description of topological insulators from the point of view of Dirac equations. The  $Z_2$  index for the Dirac equation is

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## **Topological insulator and the dirac equation**

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This nice image of Dirac cones (from this article), in a  $(E, \vec{k}$  graph) will be an introduction for several questions, in the realm of topological insulators.

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