



# **Nanotube Superfiber Materials: Chapter 18. A Review on the Design of Superstrong Carbon Nanotube or Graphene Fibers and Composites (Micro and Nano Technologies)**

*Nicola Pugno*

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*Nicola Pugno*

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In this chapter, the mechanics of nanotubes, graphene and related fibers are reviewed, with an eye to the limiting case of the design of a space elevator megacable. The effect on the fracture strength of thermodynamically unavoidable atomistic defects with different sizes and shapes is quantified. Brittle fracture is investigated both numerically (with ad hoc hierarchical simulations) and theoretically (with quantized fracture theories) for nanotubes, graphene and related bundles.

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