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which the nanostructures are coated on to a flat substrate and located in the light path, despite the outstanding properties of the carbon nanostructures, functionality deteriorates because of the free-space coupling, which causes the additional loss and deleterious reflection as well as an alignment problem.

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The typical diameter of nanotubes range from about 1 to 100 nm, and graphene ideally has the thickness of a single atomic layer ($\sim 3.4 \text{ \AA}$). Fundamentally, it is the combination of the reduced dimensions and the different lattice structure that leads to the fascinating properties unique to nanotubes

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nanomaterials as a high-performance electrode is one of the promising directions when it comes to developing high-voltage supercapacitors with both a high power density and high energy density. However, the mass production and post-treatment of the carbon nanotube/graphene-based nanomaterials with high purity are necessary steps toward the commercialization of high-performance supercapacitors, and the challenges in engineering carbon ...

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To a first approximation, the exceptional electrical properties of carbon nanotubes can be viewed as inherited from the unique electronic structure of graphene, provided the carbon nanotube is thought of as graphene rolled up along one of its Bravais lattice vectors to form a hollow cylinder.

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Carbon nanotubes, or CNTs, are an allotropic form of carbon, which develops in a cylindrical shape. There are two main types of CNTs – Single-Walled Carbon Nanotubes (SWCNTs) Multi-Walled Carbon Nanotubes (MWCNTs) Similar to graphene, the carbon nanotubes are also extremely strong and display excellent conductivity for heat and electricity. They also have a higher aspect ratio than any other conventional material in use today.

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Recently discovered carbon nanotubes (1991) and graphene (2004) are intrinsically low-dimensional materials with remarkable electronic properties. Combined with semiconductor technologies they might be used to fabricate

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smaller devices with more complex functionality. This thesis addresses two routes towards this goal.

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