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In recent years, the research community has devoted significant effort to this issue, leading to substantial advances in the preparation of monodisperse carbon nanotube materials. This article highlights the most recent and promising developments from two perspectives: post-synthetic sorting and selective growth of carbon nanotubes of predetermined physical and electronic structure.

As described in a recent article published in the journal ACS Nano ("Synthesis of Diamond-Like Carbon Nanofiber Films"), the researchers noted that the new carbon material has a high concentration of tetravalently-bonded carbons (the diamond-like nanofibers have many C atoms with 4 other atoms bonded to them; this is also referred to as "sp³-bonded carbon").

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The aim of this chapter is to provide an introduction to the recent developments of chemical vapor depositions (CVDs) of single-walled carbon nanotubes (SWNTs). A variety of CVD techniques have been introduced, and related experimental issues are discussed. Additional challenges in the field of nanotube synthesis are also explained in the chapter.

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