Preface

A carbon nanotube (CNT) is a tube made of carbon with a diameter in the nanometre range (nanoscale). They are one of the allotropes of carbon. Two broad classes of carbon nanotubes are recognized: Single-walled carbon nanotubes (SWCNTs) have diameters around 0.5–2.0 nanometres, about 100,000 times smaller than the width of a human hair. They can be idealised as cutouts from a two-dimensional graphene sheet rolled up to form a hollow cylinder. Multi-walled carbon nanotubes (MWCNTs) consist of nested single-wall carbon nanotubes in a nested, tube-in-tube structure. Double- and triple-walled carbon nanotubes are special cases of MWCNT.[1]

In the present book, ten typical literatures about Carbon Nanotube published on international authoritative journals were selected to introduce the worldwide newest progress, which contains reviews or original researches on Carbon Nanotube. We hope this book can demonstrate advances in Carbon Nanotube as well as give references to the researchers, students and other related people.

The Editorial Board of Academic Archives
Scientific Research Publishing
February 28th,2025

[1] https://en.wikipedia.org/wiki/Carbon_nanotube