



# **Nanotube Superfiber Materials: Chapter 5. Alloy Hybrid Carbon Nanotube Yarn for Multifunctionality (Micro and Nano Technologies)**

*Lakshman K. Randeniya*

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# Nanotube Superfiber Materials: Chapter 5. Alloy Hybrid Carbon Nanotube Yarn for Multifunctionality (Micro and Nano Technologies)

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## **Nanotube Superfiber Materials: Chapter 5. Alloy Hybrid Carbon Nanotube Yarn for Multifunctionality (Micro and Nano Technologies)** Lakshman K. Randeniya

This chapter discusses fabrication of carbon nanotube yarn and coating of metals and nonmetals onto the yarn to increase electrical conductivity. An increase in weight due to the metal particle coating is the trade-off for achieving increased electrical conductivity. Electrical conductors made from the hybrid alloy yarn may have multiple applications including in electrical conductors and transmission lines. Carbon nanotube yarns also show potential as microelectrodes and robust and flexible chemiresistors for molecular detection. The decoration of metal nanoclusters on the yarn provides high sensitivity and selectivity to gases that are present in industrial and environmental emissions. Overall, coating yarn with particles produces a multifunctional material that opens up new design possibilities for applications.

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