



# **Nanotube Superfiber Materials: Chapter 21. Development of Lightweight Sustainable Electric Motors (Micro and Nano Technologies)**

*Brad Ruff, Weifeng Li, Rajiv Venkatasubramanian, David Mast, Anshuman Sowani, Mark Schulz, Timothy J. Harned*

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There are two ways to manufacture components and devices, the top-down and bottom-up processes. Each process has its advantages and disadvantages. In our group, the bottom-up process was selected to build up electromagnetic devices using nanoscale materials in a series of steps. The design of a lightweight electric motor is described based on using nanoscale materials. Development of the motor is work in progress and various processes and results are described. There are several potential applications for lightweight sustainable electric motors. One billion electric motors are produced in the world each year.

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