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**Sinopsis**

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Plasma decontamination is a rapidly expanding area of modern science and engineering. An increasing number of engineers are using plasma methods for decontamination of chemical and biological agents. Plasma decontamination is effectively applied today to clean and sterilize different surfaces, high volume air and water streams, industrial exhausts, and even living tissue of animals and humans. This book provides a fundamental introduction to virtually all aspects of modern plasma decontamination, as well as the most recent technological achievements in the area.

The book is segmented into four specific sections of modern plasma decontamination: (1) plasma bio-decontamination, including disinfection and sterilization of surfaces, water and air streams; (2) plasma decontamination of chemical agents, including cleaning of air, water, and industrial exhaust gases from different pollutants and especially volatile organic compounds VOC; (3) plasma treatment of living tissue, including different subjects of plasma medicine from skin sterilization to tissue engineering; (4) major electric discharges applied for the plasma-assisted decontamination of chemical and biological agents.