



Plasma Discharge in Liquid: Water Treatment and Applications

Yong Yang, Young I. Cho, Alexander Fridman

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Plasma methods that effectively combine ultraviolet radiation, active chemicals, and high electric fields offer an alternative to conventional water treatment methods. However, knowledge of the electric breakdown of liquids has not kept pace with this increasing interest, mostly due to the complexity of phenomena related to the plasma breakdown process. **Plasma Discharge in Liquid: Water Treatment and Applications** provides engineers and scientists with a fundamental understanding of the physical and chemical phenomena associated with plasma discharges in liquids, particularly in water. It also examines state-of-the-art plasma-assisted water treatment technologies.

The Physics & Applications of Underwater Plasma Discharges

The first part of the book describes the physical mechanism of pulsed electric breakdown in water and other liquids. It looks at how plasma is generated in liquids and discusses the electronic and bubble mechanism theories for how the electric discharge in liquid is initiated. The second part of the book focuses on various water treatment applications, including:

- Decontamination of volatile organic compounds and remediation of contaminated water
- Microorganism sterilization and other biological applications
- Cooling water treatment

Drawing extensively on recent research, this one-stop reference combines the physics and applications of electric breakdown in liquids in a single volume. It offers a valuable resource for scientists, engineers, and students interested in the topic of plasmas in liquids.

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