

## CHAPTER OVERVIEW

### 9: Water - the Ultimate Green Substance

“Although the wastewater from Mexico City that the farmers in Mexico’s Mezquital valley use for irrigating their crops is a foul concoction that sometimes causes boils and other ailments to those who contact it, the farmers that use it are concerned that a new drainage and treatment system may remove nutrients and enable recycle of water back to the city depriving them of the irrigation water upon which their livelihoods depend.

[9.1: H<sub>2</sub>O - Simple Formula, Remarkable Molecule](#)

[9.2: Occurrence, Availability , and Utilization of Water on Earth](#)

[9.3: Water Chemistry](#)

[9.4: Water Pollution](#)

[9.5: Greening of Water - Purification Before Use](#)

[9.6: Wastewater Treatment](#)

[9.7: Advanced Wastewater Treatment and Recycling](#)

[9.8: The Many Uses of Water](#)

[9.9: Hot Water - Pressurized Subcritical Water](#)

[9.10: Supercritical Water](#)

[Literature Cited](#)

[Questions and Problems](#)

[Supplementary References](#)

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