



**“Gheorghe Asachi” Technical University of Iasi, Romania**



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## **MEMBRANE SYSTEMS AND WATER STRUCTURES**

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### **Abstract**

Water is a vital resource for both human needs and the functioning of our ecosystem. Fresh water availability and water use have been a growing problem for centuries. This paper gives a brief overview on the current knowledge of water stress and describes possible solutions. In addition to a differentiated consideration of the various types of water stress, the special importance of water purification by membrane technology and the associated processes is discussed in detail. The economic provision of high-quality water is the focus of these considerations.

*Keywords:* bulk water, catalytically accelerated, catalyst, membrane filtration, catalytic water treatment, membranes, molecular water, mollik, RO, water stress, water structures

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