

BASIC PRINCIPLES OF MEMBRANE TECHNOLOGY SOLUTION MANUAL





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Membrane-Based Separation in Metallurgy: Principles and Applications begins with basic coverage of the basic principles of the topic and then explains how membrane technology helps in the development of new environmentally friendly and sustainable metallurgical processes.

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Today, membrane processes are used in a wide range of applications and their numbers will certainly increase. Therefore, there is a need for well educated and qualified engineers, chemists, scientists and technicians who have been taught the basic principles of membrane technology.

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Therefore, there is a need for well educated and qualified engineers, chemists, scientists and technicians who have been taught the basic principles of membrane technology. However, despite the growing importance of membrane processes, there are only a few universities that include membrane technology in their regular curricula.

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Cross flow is the configuration applied for membrane separation using RO membrane. As shown in Figure 1.1 the feed water stream flows tangentially to the membrane surface. A fraction of the water in this feed stream passes through the membrane, whereas the majority of the feed flow travels along the surface.

**RO Theory: Principles of Reverse Osmosis Membrane Separation**

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