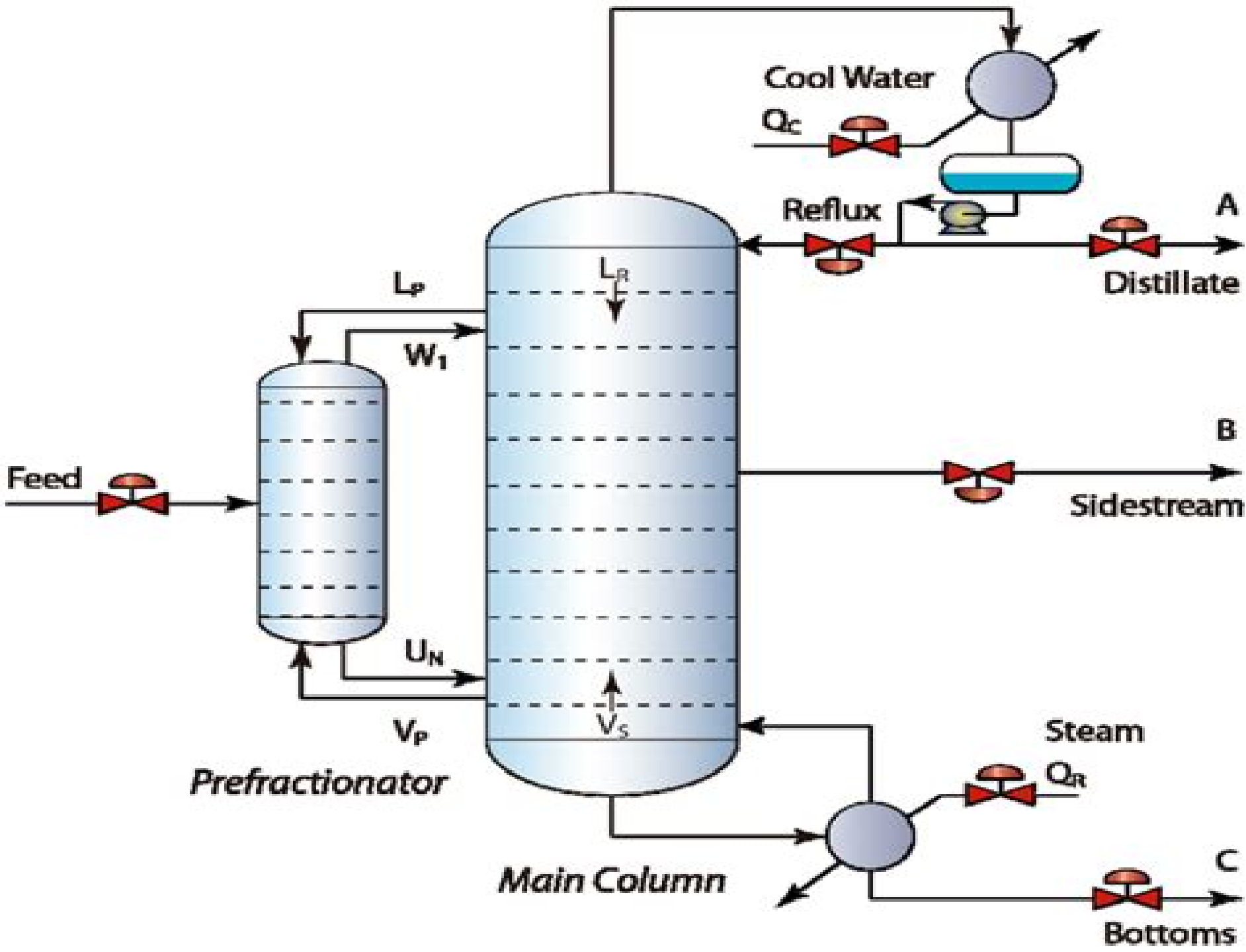




Separation Processes

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Remedial and Analytical Separation Processes Jayshree Ramkumar, A.K. Tyagi, 2024-11-15 This book describes a comprehensive integrated view of separation science backed by discussions about simple extraction and partition processes to give a better understanding of advanced techniques like chromatography and membrane separations It paves the way for an understanding of the fundamental physical and chemical phenomena involved in separations and a concise overview of transport reactions A chapter dedicated to phytoremediation gives an understanding of the various processes involved in the bioremediation of environmental media Features Provides synchronous aspects of the separation process for remediation including phytoremediation and analysis using chromatography Addresses basic separation techniques for water solutions Discusses mechanistic views of various separation processes Includes the mechanism of separation using membranes and sorbents Helps the reader understand the connection between the different discrete separation processes This book is aimed at senior undergraduate and graduate students in environmental engineering and analytical chemistry

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derivation It is concluded that an optimum description of transport phenomena in tight diffusion type membranes is achieved with the solution diffusion model According to this model each component of a fluid mixture to be separated dissolves in the membrane and passes through by diffusion in response to its gradient in the chemical potential A modified Flory Huggins equation has been derived to calculate the solubility of the permeants in the membrane material Contrary to the original Flory Huggins equation the modified equation accounts for the large effect on solubility of crystallinity and elastic strain of the polymer chains by swelling The equilibrium sorption of liquids computed with this equation was found to be in good agreement with experimental results Also the sorption of gases in both rubbery and glassy polymers could be described quantitatively with the modified Flory Huggins equation without any need of the arbitrary Langmuir term as required in the conventional dual mode sorption model Furthermore fewer parameters are required than with the at least identical accuracy

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