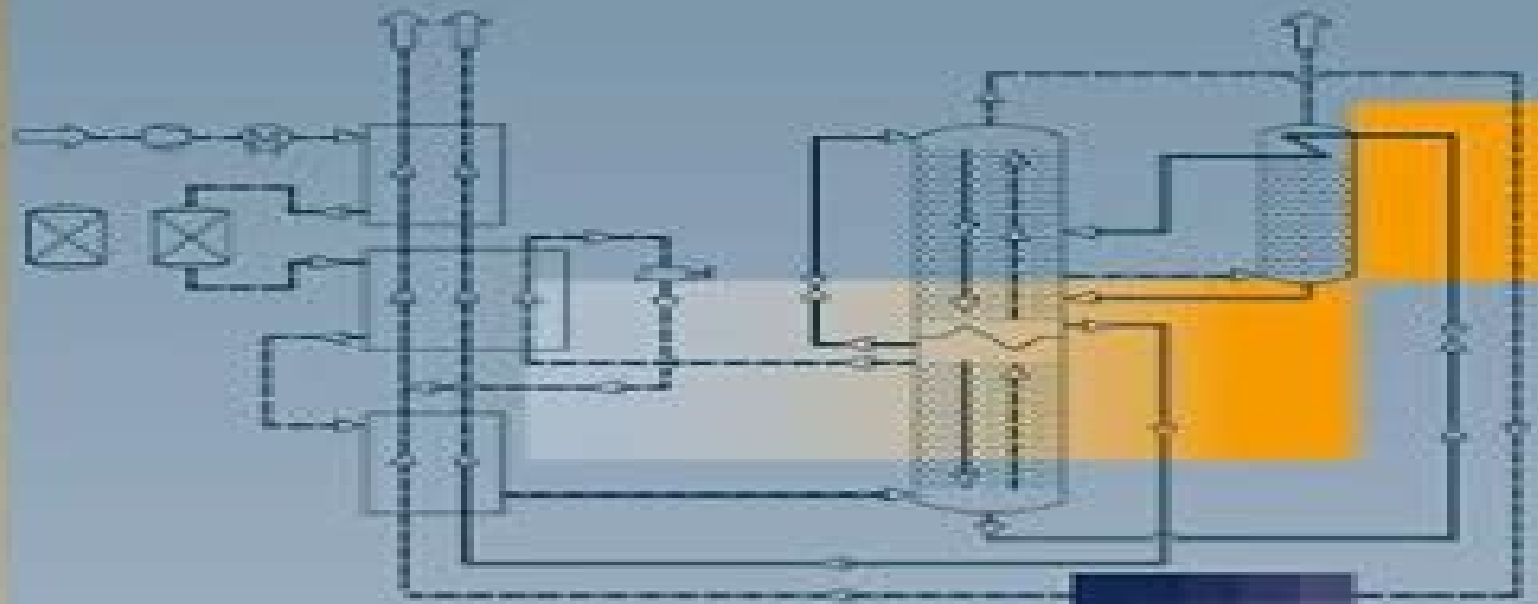


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appropriate equipment for the task data analysis and the subsequent design of the processes involved for particular separations The result is a comprehensive book which is designed to be used frequently and referred to regularly in order to achieve better industrial separations Successful industrial scale separation of solids from liquids requires not only a thorough understanding of the principles involved but also an appreciation of which equipment to use for best effect and a start to finish plan for the various processes involved in the operation If these factors are all correct then successful separations should result Part of 3 volume set Unique approach to industrial separations Internationally known authors **Separation Process Design and Synthesis Based on Thermodynamic Insights** Cecilia Jaksland, Technical University of Denmark. Department of Chemical Engineering, 1996 Abstract This thesis describes the development of a computer based system for design and synthesis of separation process systems The basis of the methodology is the relationships between physicochemical properties and the separation process principles The methodology covers a wide range of separation problems and includes identification of separation techniques selection and sequencing of separation tasks determination of estimates of appropriate and consistent conditions of operation as well as identification of Mass Separating Agents solvents Given the mixture information and the product specifications employing pure component properties the feasible separation technique alternatives are identified for each possible separation task at a lower level At the higher level employing mainly mixture properties the methodology structures the physically feasible flowsheets through selection and sequencing of separation tasks with corresponding separation techniques and determines conditions of operation The relationships identified between properties process synthesis process design and product design are verified by applying the methodology to several examples

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