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RESEARCH NOTES

双再沸器间歇萃取精馏的过程研究

华超[a, b], 李鑫钢[a, b], 徐世民[a, b], 白鹏[a]

[a] School of Chemical Engineering and Technology, Tianjin University, Tianjin 300072, China

[b] National Engineering Research Center for Distillation Technology, Tianjin University, Tianjin 300072, China

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摘要 This paper proposes a modified operation mode of batch extractive distillation with two reboilers. The separation of ethanol and water using as ethylene glycol is well done to validate the feasibility of this mode. The pilot-plant experimental data under the identical operational conditions between the regular mode and the modified mode are in particular discussed. The studied results prove more practical advantages of the modified mode over the regular mode such as easier operation control, more flexibility and higher separation efficiency etc. So it supplies certain guidance for the industrial application of batch extractive distillation process.

关键词 batch distillation, extractive distillation, two reboilers, solvent recovery,

分类号

Design and operation of batch extractive distillation with two reboilers

HUAChao[a,b],LIXingang[a,b],XUShimin[a,b], BAIPeng[a]

[a] School of Chemical Engineering and Technology, Tianjin University, Tianjin 300072, China

[b] National Engineering Research Center for Distillation Technology, Tianjin University, Tianjin 300072, China

Abstract

This paper proposes a modified operation mode of batch extractive distillation with two reboilers. The separation of ethanol and water using as ethylene glycol is well done to validate the feasibility of this mode. The pilot-plant experimental data under the identical operational conditions between the regular mode and the modified mode are in particular discussed. The studied results prove more practical advantages of the modified mode over the regular mode such as easier operation control, more flexibility and higher separation efficiency etc. So it supplies certain guidance for the industrial application of batch extractive distillation process.

Key words batch distillation, extractive distillation, two reboilers, solvent recovery,

DOI:

通讯作者 华超 eagbsbua616@126.com

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