

## عنوان مقاله:

Optimization of Absorption chillers using different absorbent mixtures of Lithium Bromide

## محل انتشار:

هفتمین کنگره ملی مهندسی شیمی (سال: 1390)

تعداد صفحات اصل مقاله: 12

## نویسندگان:

Elham Ghobadi - *Thermodynamics Research Laboratory, School of Chemical Engineering, Iran University of Science and Technology, Narmak, Tehran ۱۶۸۴۶-۱۳۱۱۴, Iran*

Sotude Bayat - *Thermodynamics Research Laboratory, School of Chemical Engineering, Iran University of Science and Technology, Narmak, Tehran ۱۶۸۴۶-۱۳۱۱۴, Iran*

Mohammad Reza Dehghani - *Thermodynamics Research Laboratory, School of Chemical Engineering, Iran University of Science and Technology, Narmak, Tehran ۱۶۸۴۶-۱۳۱۱۴, Iran*

Mahsa Arabi - *Thermodynamics Research Laboratory, School of Chemical Engineering, Iran University of Science and Technology, Narmak, Tehran ۱۶۸۴۶-۱۳۱۱۴, Iran*

## خلاصه مقاله:

In this paper, application of LiBr absorbent mixtures in absorption chillers is studied; meanwhile the thermodynamic properties effective on the performance of absorption chillers have been investigated. Considering different properties of lithium bromide and its limitations for application in absorption chillers, required additives that can be used as absorbent have been presented. Then coefficient of performance of the cycle was calculated as a criterion for optimum performance of the chiller and the mixture with maximum COP was introduced. Finally COP was optimized using sensitivity analysis of effective parameters

## کلمات کلیدی:

Lithium Bromide, Absorption Chiller, Efficiency, Absorbent Mixture

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/341129>

