

## عنوان مقاله:

INVESTIGATION OF NEW INNOVATION IN NATURAL GAS DEHYDRATION BASED ON SUPERSONIC NOZZLE TECHNOLOGY

## محل انتشار:

اولین طرح تعاملی صنعت با دانشگاه: همایش سالانه پژوهش های کاربردی در علوم مهندسی و پایه (سال: 1393)

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## خلاصه مقاله:

The dehydration is an important process in offshore gas processing. The gas is dehydrated offshore to avoid dangers associations and many problems like corrosion, fouling and ... which causes many operation and economical adverses. There are several methods for dehydration of Natural Gas (NG) like direct cooling, adsorption, absorption with diethylene and triethylene glycols, Molecular sieves (zeolites), silica gel, and bauxite are the desiccants used in adsorption processes. In this study we examine the modern new technology as dehydration with supersonic-technology intended to extract target components from natural gases. The technology is based on cooling of natural gas in a supersonic swirling gas flow. In addition of cost effective and highly efficient extraction process in this method, There are a wide range of potential applications like facilities for gas preparation for transportation, facilities for LPG extraction, offshore gas separation, treatment facilities and etc.

## کلمات کلیدی:

Dehydration; New technology; Supersonic Technology

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