

28. An Experimental Study on Sea Water Freezing Behavior around a Cooled Tube

기관공학과 김 성 태
지도교수 김 명 환

Recently, With explosive increase in population and a rapid industry growth, we are come up against serious water deficiency problem. In Korea, the demand of LNG, as a cheap and clean energy which does not cause an environmental pollution is being increased in every year. However, when it serviced, a huge amount of cold energy accumulated in LNG is wasted. The goals of this study is to develop a sea water freezing desalination for using LNG with wasted cold energy.

So we have to establish a qualitative and quantitative data regarding the freezing behavior of sea water. In order to obtain this data, the freezing of sea water were performed experimentally around a cooled tube in a rectangular vessel.

Key words : Environmental Pollution, Freezing Desalination system, LNG Cold Energy, Sea Water Freezing Behavior

