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will be a valuable and much needed reference for researchers and scientists whose focus includes cryogenic engineering, natural gas liquefaction, refrigeration systems, and process simulation and optimization.

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Cryogenic refrigerators operating with refrigerant mixtures were developed under classified and proprietary programs for many years, and it was only after 1991 that the world realized the importance of the mixed refrigerant systems for cryogenic refrigeration. Mixed refrigerant cryogenic processes are also used in most large base load natural gas liquefaction plants.

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Cryogenic Mixed Refrigerant Processes | Gadhiraaju ...

Most conventional cryogenic refrigerators and liquefiers operate with pure fluids, the major exception being natural gas liquefiers that use mixed refrigerant processes. The fundamental aspects of mixed refrigerant processes, though very innovative, have not received the due attention in open literature in view of commercial interests. Hundreds of patents exist on different aspects of mixed refrigerant processes.

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Cryogenic mixed refrigerant processes (Book, 2008 ...

The interest in mixed refrigerant
cryocoolers was revived about 10 years
ago when DARPA funded projects for the
development of low-cost cryocoolers
[62]. Currently, there's worldwide
interest in using mixed refrigerant
processes for the liquefaction of nitrogen
and separation of air [25].

CRYOGENIC MIXED REFRIGERANT PROCESSES

The authors believe this work will greatly
help the process engineers overcome
the challenges relating to the energy
efficiency of LNG industry, as well as
other mixed refrigerant-based cryogenic

...

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A thorough introduction to mixed refrigerant cycles may be found in "Cryogenic Mixed Refrigerant Processes" by G. Venkatarathnam, Springer (2008).

The place of mixed refrigerants in the liquefaction of natural gas is discussed by H.M. Chang in "A thermodynamic review of cryogenic refrigeration cycles for liquefaction of natural gas ...

Mixed Refrigerant Cycles - Cryogenic Society of America

The refrigerant of this cycle consists of a mixture of nitrogen, methane, ethane, and propane. Mixed refrigerant vapor from the shell side of the main cryogenic heat exchanger is compressed in an axial compressor followed by a two stage centrifugal compressor. Intercooling and initial desuperheating is achieved by air cooling.

Mixed Refrigerant - an overview | ScienceDirect Topics

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Part of the International Cryogenics Monograph Series book series (ICMS) Abstract Mixed refrigerant processes

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were originally developed for the liquefaction of natural gas.

Cooling and liquefaction of air and its constituents ...

In the optimized Cascade process, the mixture to be cooled and condensed is the feed gas. In the propane mixed refrigerant processes, the two mixtures requiring cooling and condensing are the feed gas and the mixed refrigerant. The chief source of inefficiency lies in the heat exchange train during the liquefaction process.

Cryogenic fuel - Wikipedia

Mixed refrigerant cryogenic processes are also used in most large base load natural gas liquefaction plants.

Hundreds of patents exist on different aspects of mixed refrigerant processes for liquefaction of natural gas, as well as the composition of mixtures for Joule-Thomson and other refrigerators.

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Processes (eBook, 2008 ...

Mixed refrigerant processes were subsequently adopted for the commercial liquefaction of natural gas nearly 40 years ago. Over 95% of the base-load LNG plants operate on mixed refrigerant processes, with the remaining few operating on conventional cascade processes.

Natural gas liquefaction processes | SpringerLink

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