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cycles are the
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of new
mixtures and
cooling
systems, the
research also
involves
measurement
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transfer,
pressure drop
and other
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properties, as
well as
process
modeling for
optimization.
There is also
significant
patent activity
in this
field.Mixed
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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. Cryogenic Mixed Refrigerant

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Shell developed a Dual Mixed Refrigerant (DMR) process for liquefaction, as shown in Figure 6-15, with two separate mixed refrigerant cooling cycles, one for precooling of the gas to approximately -50°C (PMR cycle) and one for final cooling and liquefaction of the gas (MR cycle). This concept allows the designer to choose the load on each cycle.
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Mixed refrigerant cycles are the subject of extensive ongoing research. In addition to the development of new mixtures and cooling systems, the research also involves measurement s of heat transfer, pressure drop and other mixture properties, as well as process modeling for optimization.

There is also significant patent activity in this field. *Natural gas liquefaction processes* | *SpringerLink*
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

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