Venkatarathnam

# Cryogenic Mixed Refrigerant Processes

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. However, it is difficult to piece together the existing information to choose an appropriate process and an optimum composition or a given application. The aim of the book is to teach (a.) the need for refrigerant mixtures, (b.) the type of mixtures that can be used for different refrigeration and liquefaction applications, (c.) the different processes that can be used and (d.) the methods to be adopted for choosing the components of a mixture and their concentration for different applications.

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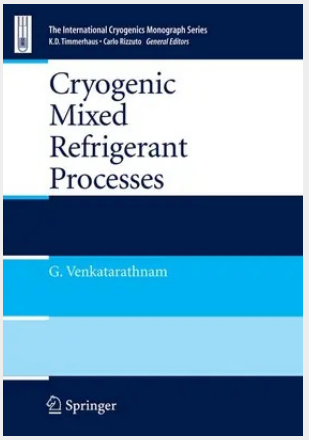


**171,19 €**
159,99 € (zzgl. MwSt.)

*Lieferfrist: bis zu 10 Tage*

**Artikelnummer:** 9780387785134
**Medium:** Buch
**ISBN:** 978-0-387-78513-4
**Verlag:** Springer
**Erscheinungstermin:** 08.09.2008
**Sprache(n):** Englisch
**Auflage:** 2008
**Serie:** International Cryogenics Monograph Series
**Produktform:** Gebunden
**Gewicht:** 588 g
**Seiten:** 262
**Format (B x H):** 160 x 241 mm



**Kundenservice Verlag Dr. Otto Schmidt KG**
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)