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## **GENUINE] SMART MEMBRANE MATERIALS AND SYSTEMS: FROM FLAT MEMBRANE TO MICROCAPSULES FILM: FROMFLATMEMB(CHINESE EDITION)**



paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2011-06-01 Publisher: the Basic information Zhejiang University Press [title] Smart Membrane Materials and systems: from flat membrane to microcapsules film: from flat memanes to the microcapsule memanes [Press] Zhejiang University published community Liang-Yin Chu forward [ISBN] 9787308080897 [Original] 115 & nbsp Publication Date 2011-06-01 00:00:00 [printing Date 2011-06-01 00:00:00 Format format open 16 [word count] [Pages Revision 1 [impressions] Description The book is composed of 12 chapters In Chapter 1. a ief introduction of smart or intelligent memanes as emerging of artificial biomimetic memanes will be outlined. In Chapter 2. the emphasis is focused on the design. microstructures and performance of thermo-responsive gating memanes. because in many cases the environmental temperature fluctuations can occur naturally and the temperature stimuli can be easily designed and artificially controlled. The contents of this chapter on thermo-responsive gating memanes are also valuable for designing and faicating other stimuli-responsive gating memanes. In Chapters 3 and 4. smart microcapsules with thermo-responsive gating memanes and with thermo responsive hydrogel memanes are introduced respectively. which are designed for the purpose of controlled release. In Chapters 5 and 6. the contents are focused on developments of thermo-responsive memanes for chiral resolution and for affinity separation. respectively. In Chapter 7. pH-responsive gating memane systems with pumping effects for improved controlled release performance are introduced. In Chapter 8. smart microcapsules with pH-responsive hydrogel memanes. which are promising for pH-responsive controlled release. are introduced. In Chapters 9 and 10. the contents are focused on glucose-responsive and molecular-recognizable smart memanes. which have high potential in applications in glucose-responsive self-regulated insulin delivery for diabetes therapy and in specific site-targeted drug delivery and/or chemical sensors. In Chapter 11. dual-multi-stimuli-responsive smart memanes....

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