Downloaded from UvA-DARE, the institutional repository of the University of Amsterdam (UvA) http://hdl.handle.net/11245/2.52254

File ID uvapub:52254

Filename Inhoud Version unknown

SOURCE (OR PART OF THE FOLLOWING SOURCE):

Type PhD thesis

Title Models of molecular clouds

Author(s) W.H.M. Boland

Faculty FNWI: Astronomical Institute Anton Pannekoek (IAP)

Year 1982

FULL BIBLIOGRAPHIC DETAILS:

http://hdl.handle.net/11245/1.392944

Copyright

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content licence (like Creative Commons).

INHOUD

Inleiding en Samenvatting	3
Abstract	7
I. Hydrostatic models of molecular clouds	
A. Steady state models	9
B. Improved steady state models of spherical clouds	27
C. Time dependent chemistry and depletion	57
II. Carbon depletion in turbulent molecular cloud cores	81
III. A model for the formaldehyde maser near NGC 7538-IRS l	. 93
IV. Formaldehyde absorption towards OH sources	99
V. Detection of CH ₃ OH J=5+4 lines around 242 GHz in OMC-1	121
Dankwoord	131
Curriculum Vitae	133