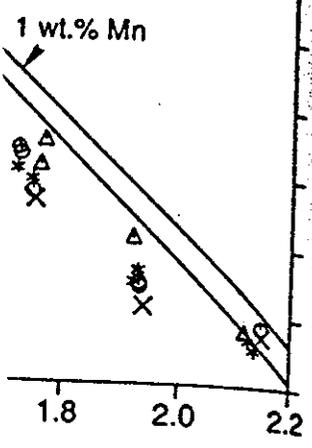
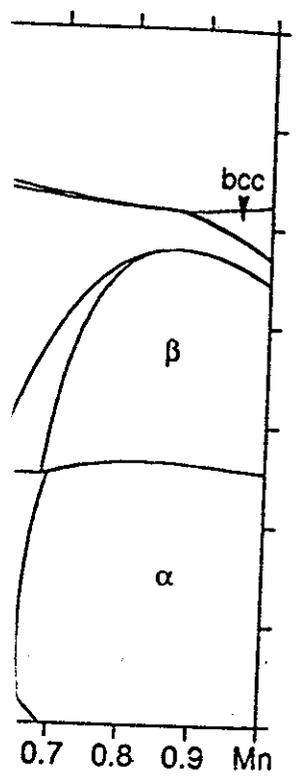


Rawlings (1975)
 z pure Fe
 + 0.53 wt.% Mn
 y 0.785 wt.% Mn
 x 0.882 wt.% Mn
 o 1.18 wt.% Mn



the Fe-rich bcc phase in
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assessed by Huang.^[31]

liquid forms in

calculated by in-
 can be referred

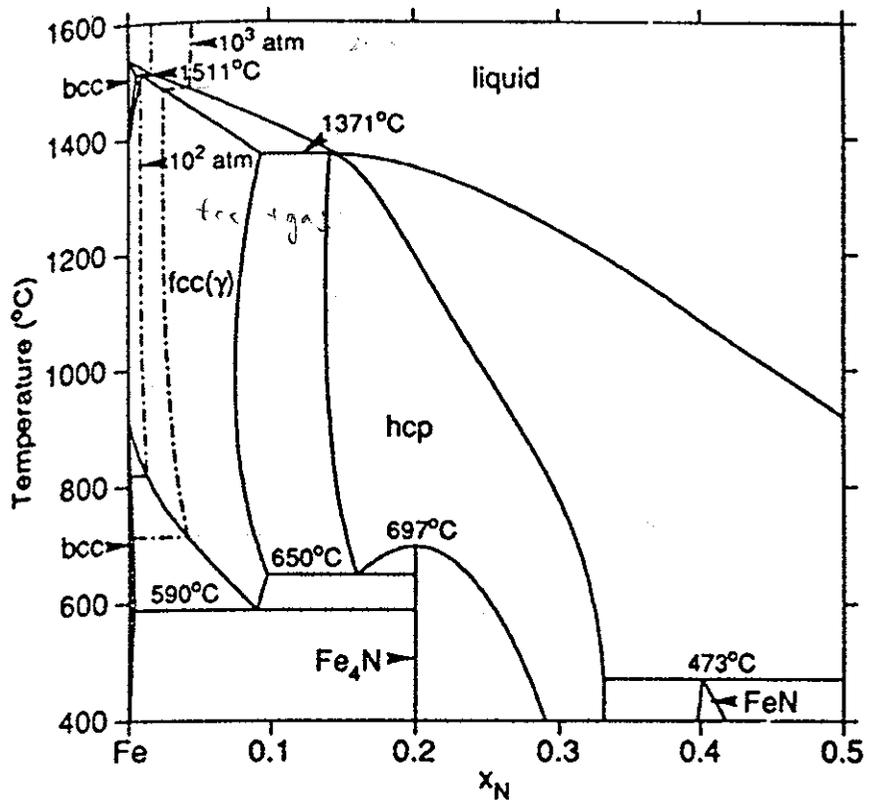


Fig. 19—The calculated Fe-N phase diagram assessed by Frisk,^[29] where N₂ gas is omitted but isobar lines are shown in dashed curves.

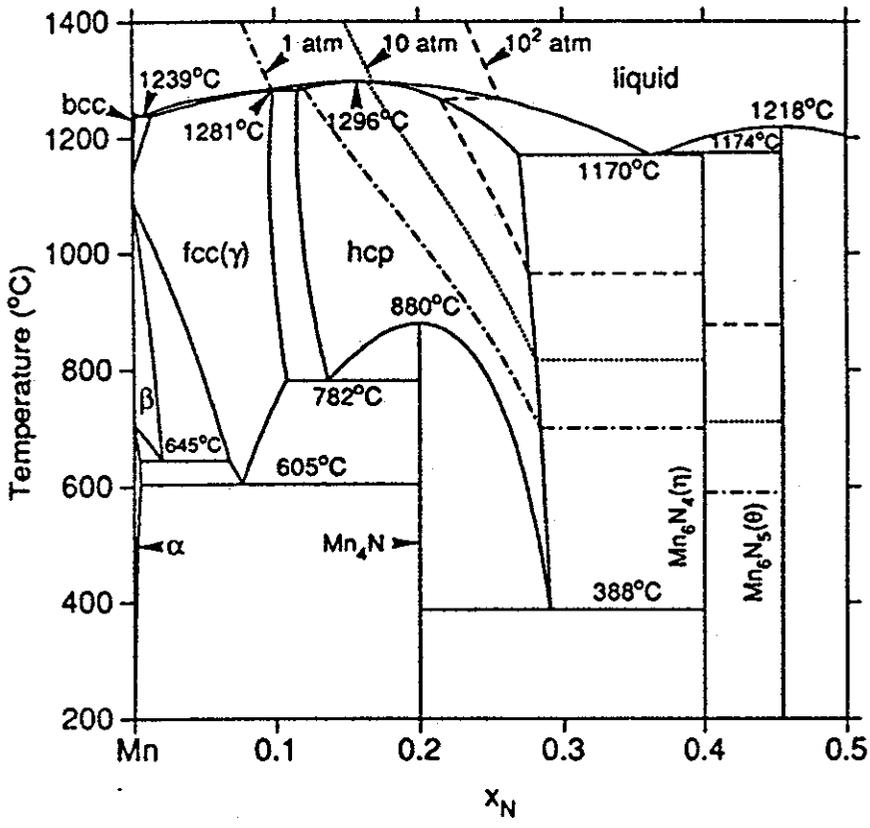
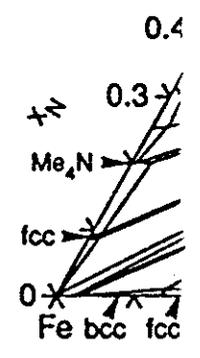
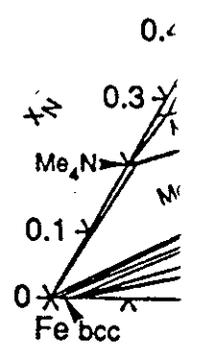


Fig. 20—The calculated Mn-N phase diagram assessed by Qiu and Fernández Guillermet,^[30] where N₂ gas is omitted but isobar lines are shown in dashed curves.

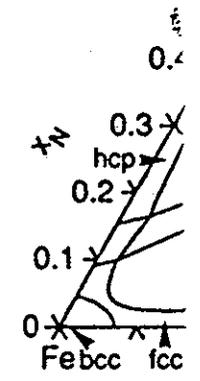


Fig. 21—The
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maximum solubility of Fe in Mn₄N increases with temperature until about 710 °C and then decreases on further heating until it transforms into the hcp phase. The experiments at 900 °C could not be accounted for. It has

V.

Using th
 Fe-Mn-N s
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