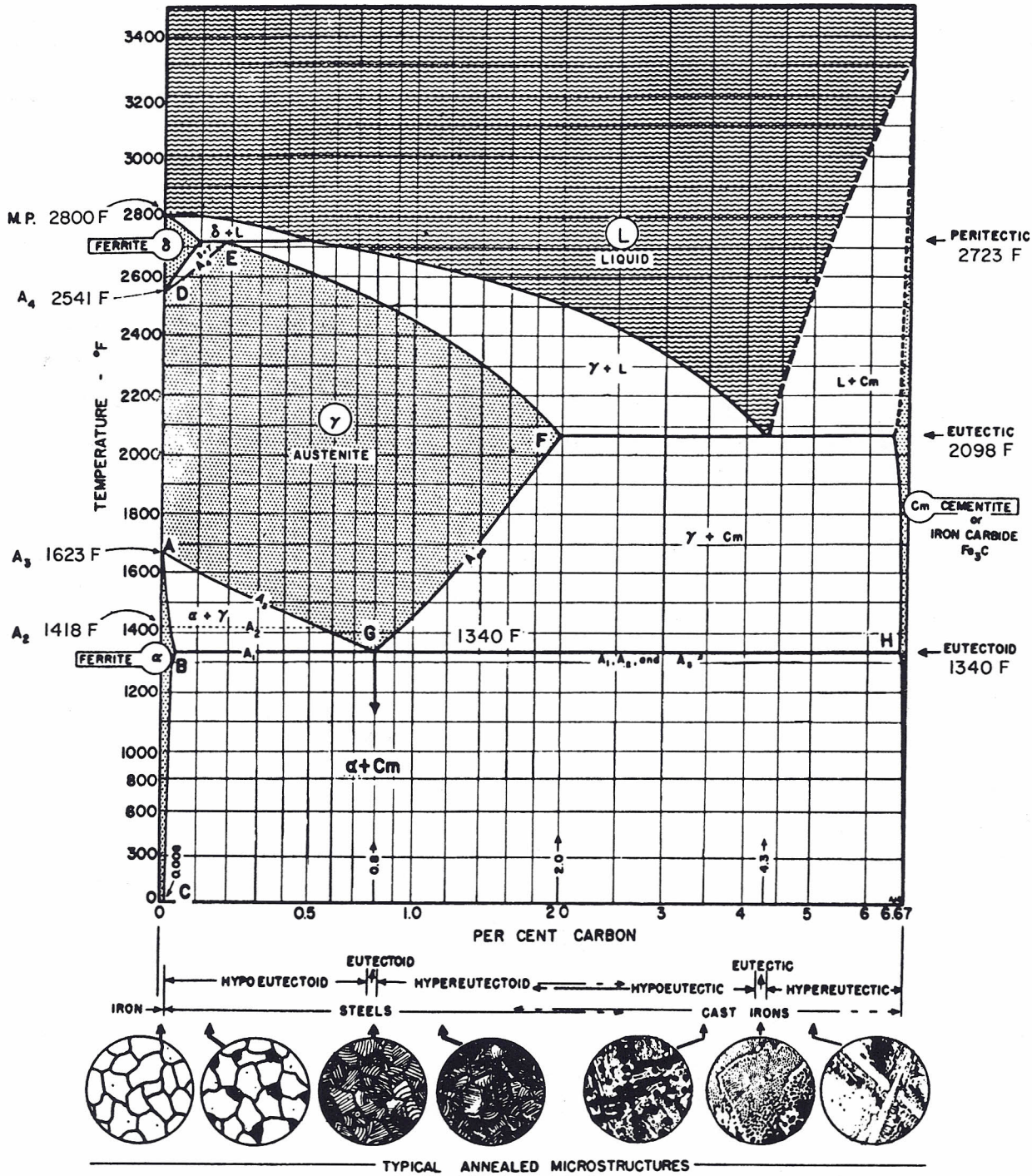
M.P. 2800 F
FERRITE δ
δ + L
E
A4 2541 F
D
L
LIQUID
PERITECTIC 2723 F
γ + L
L + Cm
γ
AUSTENITE
F
EUTECTIC 2098 F
Cm CEMENTITE or IRON CARBIDE Fe3C
γ + Cm
A3 1623 F
A
A3
α + γ
A2 1418 F
A2
G
1340 F
H
EUTECTOID 1340 F
FERRITE α
B
A1
A1, A2, and A3
α+Cm
TEMPERATURE - °F
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
300
0
0.008
C
0.8
2.0
4.3
0
0.5
1.0
2.0
3
4
5
6
6.67
PER CENT CARBON
EUTECTOID
HYPOEUTECTOID
HYPEREUTECTOID
HYPOEUTECTIC
EUTECTIC
HYPEREUTECTIC
IRON
STEELS
CAST IRONS
TYPICAL ANNEALED MICROSTRUCTURES