

Fig. 6. Three examples of microstructures observed in a high pressure and high temperature cobalt-carbon reaction.

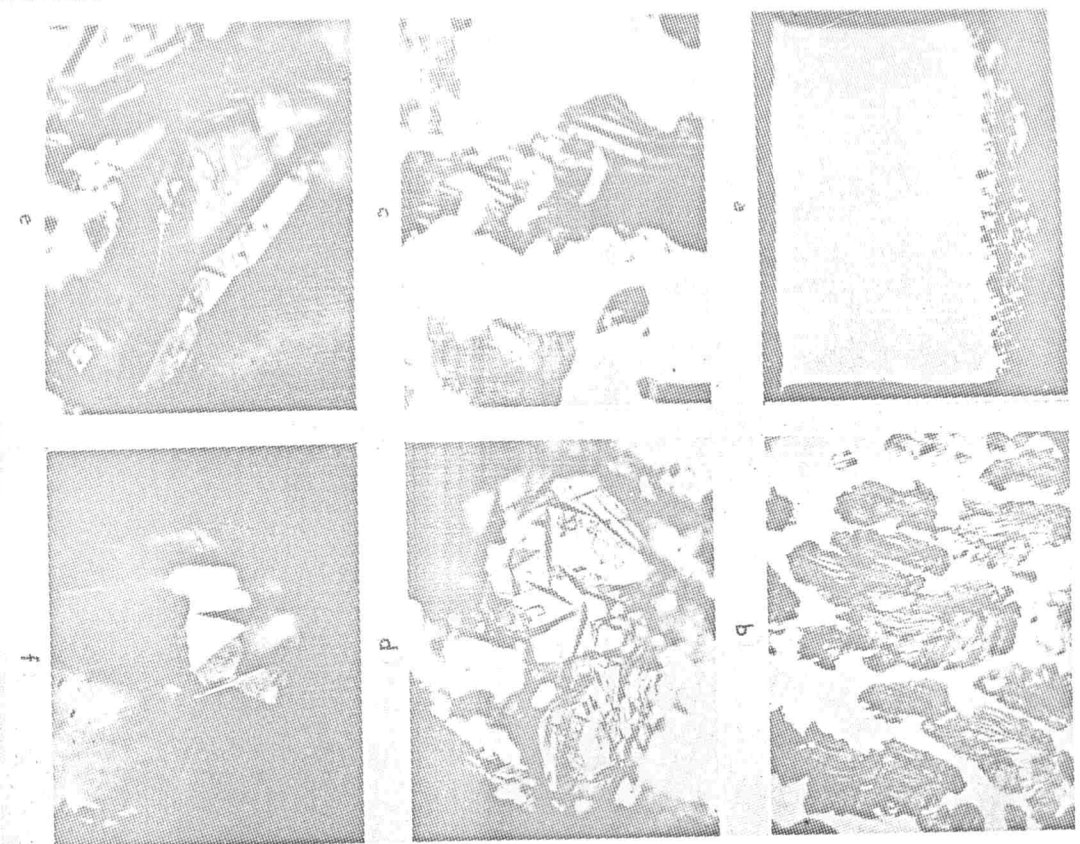


Fig. 7. Examples of graphite solution and recrystallization at high pressures and temperatures in simple metallic solvents. (a) Cross sectioned nickel plug. Width = 5 mm. A carbon solution is at top. (b) Microstructure of a nickel-carbon solution. (X) polarized view. (300X). (c) A magnified view of an area in (b). (1000X). (d) Recrystallized graphite from a platinum-carbon solution. (e) Essentially single crystal recrystallized graphite from a Pt-C reaction (1500X). (f) Additional recrystallized graphite from a Pt-C reaction (1500X).