

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

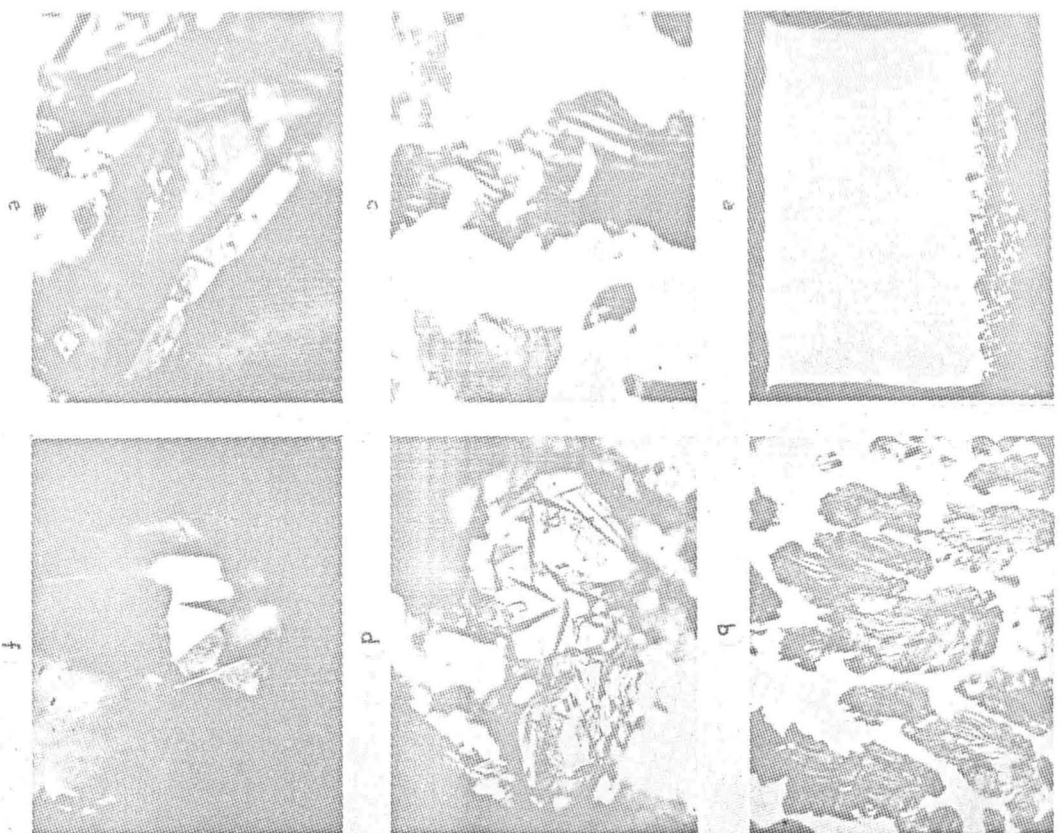


Fig. 7. Examples of graphite solution and recrystallization at high pressures and temperatures in simple metallic solvents. (a) Cross sectioned nickel plug. Width = 5 mm. A dark solution is at top. (b) Microstructure of a nickel-carbon solution (\times polarized 270° , $500\times$). (c) A magnified view of an area in (b). ($1000\times$). (d) Recrystallized graphite from a platinum-carbon solution. (e) Essentially single crystal recrystallized graphite from a Pt-C solution ($1500\times$). (f) Additional recrystallized graphite from a Pt-C reaction ($1500\times$).