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ON THE COVER: Upper left: Crystalline secondary phases on corroded nuclear waste glass (large crystal: pyromorphite, Pb₅(PO₄)₃Cl). Scale bar: 10μm. From: E. Schiewer, W. Lutze, L.A. Boatner, and B.C. Sales, Mat. Res. Soc. Symp. Proc. 50 (1985) Materials Research Society, p. 231. Upper right: Helium blisters formed on a glass surface above the transformation temperature. Scale bar: 100μm. From: A.K. De, B. Luckscheiter, and W. Lutze, Ceramic Bulletin 55 (5) (1976) p. 500. Lower left: Crystals partially scraped away to show underlying gel layer and unreacted glass (large crystals: analcime, NaAlSi₄O₁₂·H₂O). Scale bar: 10μm. From: W. Lutze, G. Malow, H. Rabe, T.J. Haedley, Scientific Basis for Nuclear Waste Management VI, edited by D.G. Brookins (North-Holland, Amsterdam, 1988) p. 37. Lower right: Microstructure of Synroc. Scale bar: 1μm. Courtesy of G.R. Lumpkin, Australian Nuclear Science and Technology Organisation, Menai, Australia.
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