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Plate II

Plate III

- Fig. a. X-ray pattern of isolated by-product in sample 2.5, and schematic representation of literature reference pattern of γ -AlOOH.
- Fig. b. Na⁺ substituted preparation typical for series 2 as fig. b on Plate II, but direct preparation. Sample 2.5. $\times 12,000$. LiAl₂Mn₃O₉. 3 H₂O can not be distinguished from γ-AlOOH.
- Fig. c. Selected area electron diffraction of γ -AlOOH single crystal isolated from sample No. 2.5 (fig. b).
- Fig. d. Selected area electron diffraction of by-product in series 2, forming rafts of needles (fig. e).
- Fig. e. By-product typical for Na $^+$ containing preparations (series 2). Electron diffraction with streaks perpendicular to direction of needles is shown in fig. d; $\times 15,000$.
- Fig. f. Same, but carbon replica, Cr shadowed; ×15,000.