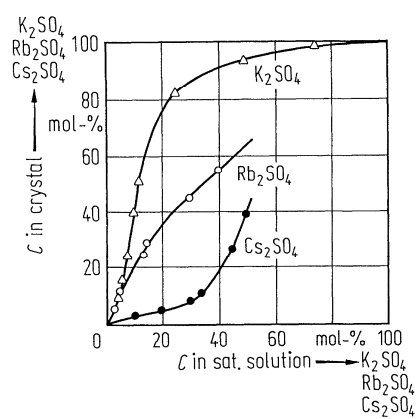


**Fig. 39B-1-001.**  $[(\text{NH}_4)_{1-x}\text{M}_x]_2\text{SO}_4$  ( $\text{M} = \text{K}, \text{Rb}, \text{Cs}$ ).  $\Theta_f$  vs.  $x$ .  $\text{M} = \text{K}$  [75Saw];  $\text{M} = \text{Rb}, \text{Cs}$  [78Ohi].



**Fig. 39B-1-002.**  $[(\text{NH}_4)_{1-x}\text{M}_x]_2\text{SO}_4$  ( $\text{M} = \text{K}, \text{Rb}, \text{Cs}$ ).  $c_{\text{cryst}}$  vs.  $c_{\text{sol}}$  [78Ohi].  $c_{\text{cryst}}, c_{\text{sol}}$ : concentrations of M atoms [mol %] in crystal and in saturated solution, respectively.

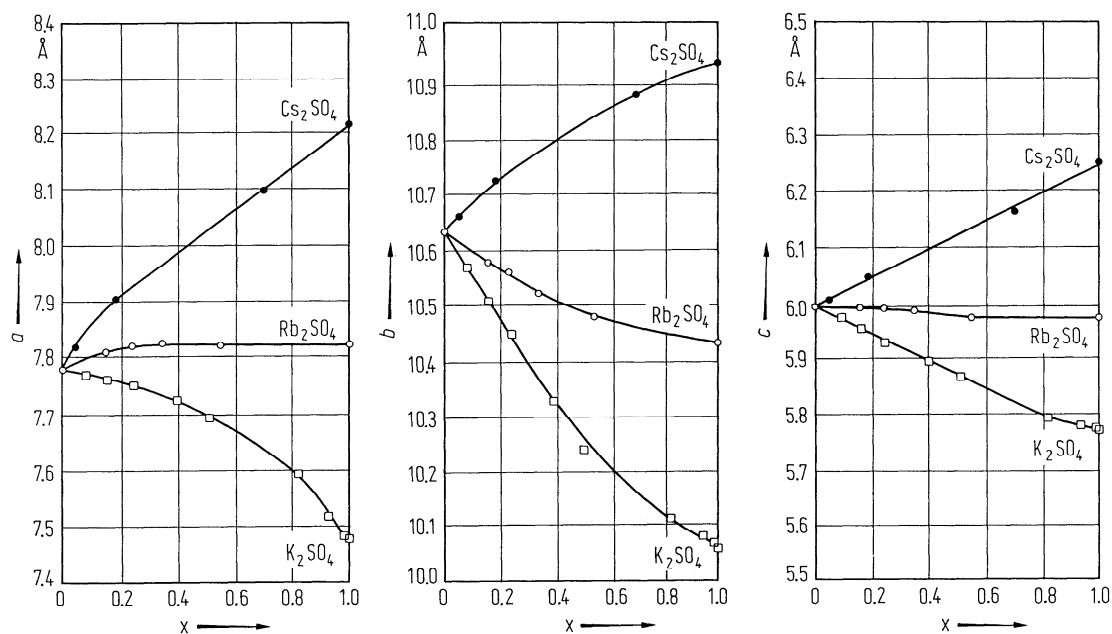


Fig. 39B-1-003.  $[(\text{NH}_4)_{1-x}\text{M}_x]_2\text{SO}_4$  ( $\text{M} = \text{K}, \text{Rb}, \text{Cs}$ ).  $a, b, c$  vs.  $x$  at RT [78Ohi].

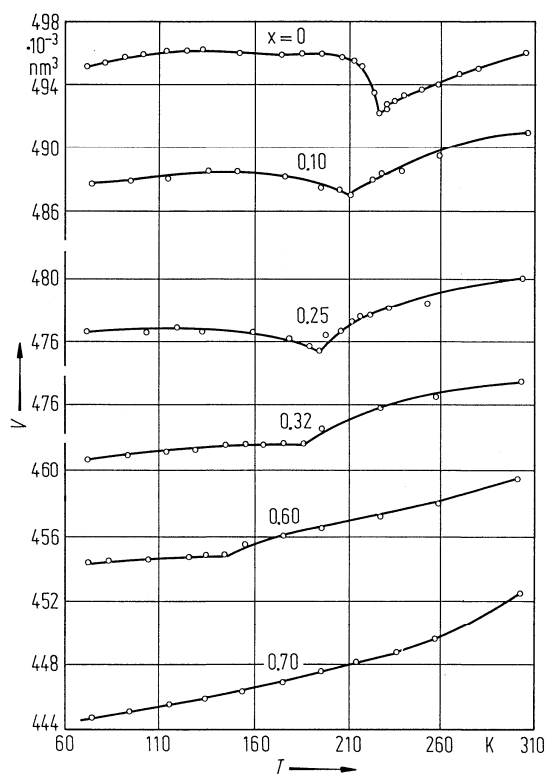
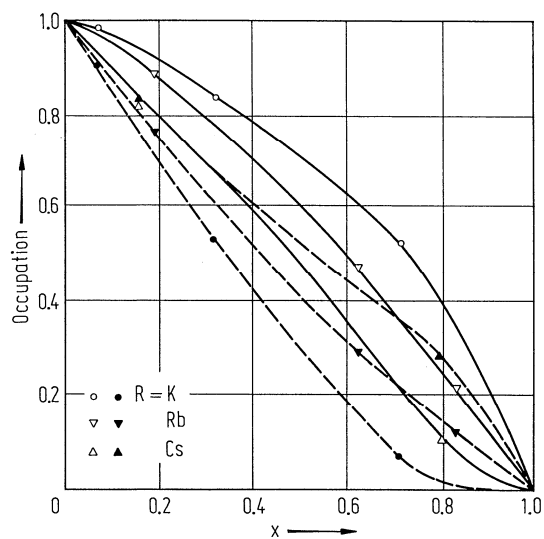
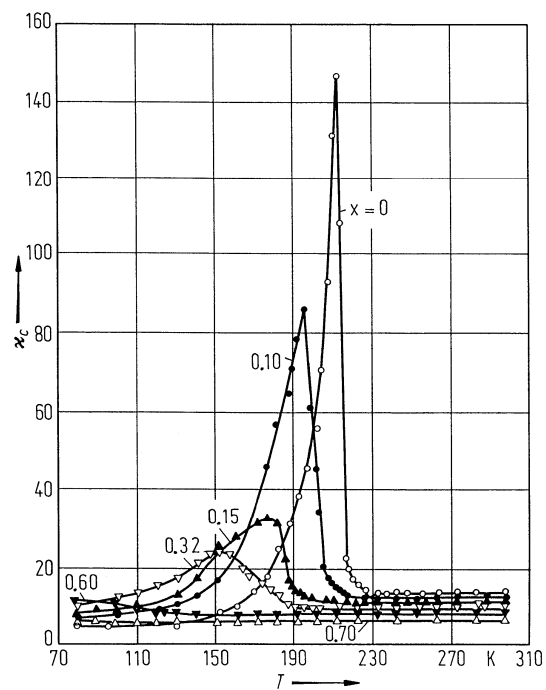


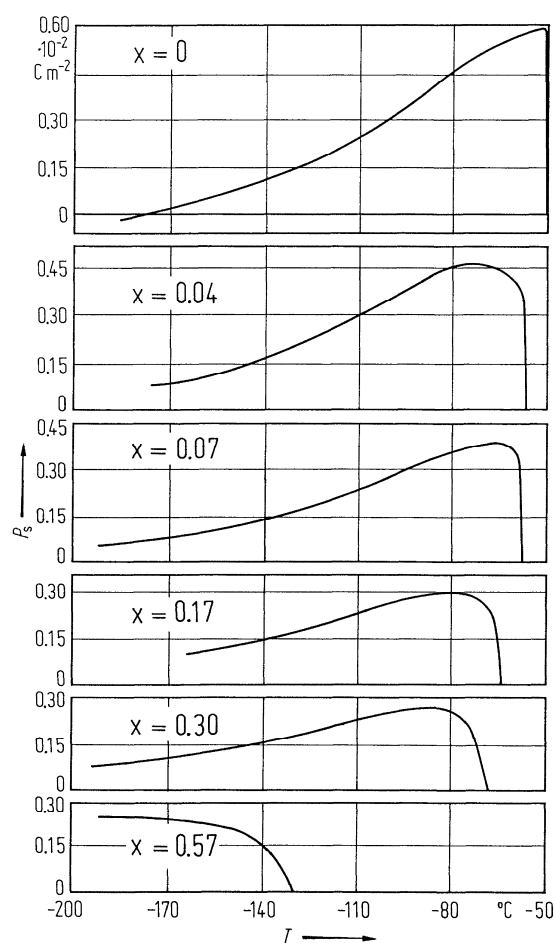
Fig. 39B-1-004.  $[(\text{NH}_4)_{1-x}\text{K}_x]_2\text{SO}_4$ .  $V$  vs.  $T$  [87Ahm]. Parameter:  $x$ .  $V$ : unit cell volume.



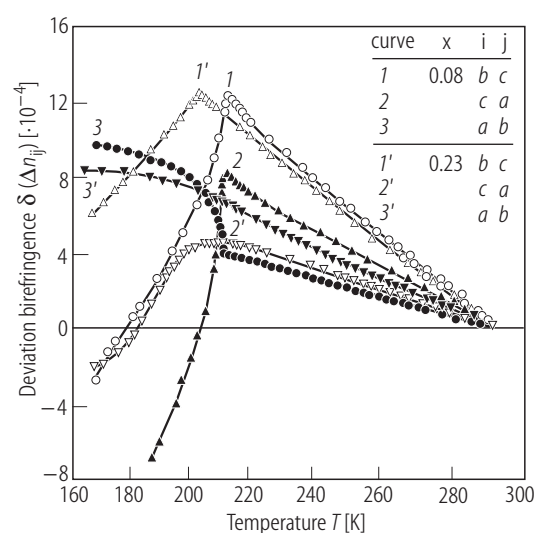
**Fig. 39B-1-005.**  $[(\text{NH}_4)_{1-x}\text{M}_x]_2\text{SO}_4$  ( $\text{M} = \text{K}, \text{Rb}, \text{Cs}$ ).  $x_\alpha, x_\beta$  vs.  $x$  [89Shi].  $x_\alpha, x_\beta$ : occupation parameters of the  $\text{NH}_4$  ions corresponding to the two crystallographically independent cation sites,  $\alpha$  and  $\beta$ . Solid curve:  $x_\alpha$ , broken curves:  $x_\beta$ .  $x_\alpha + x_\beta = 2x$ .



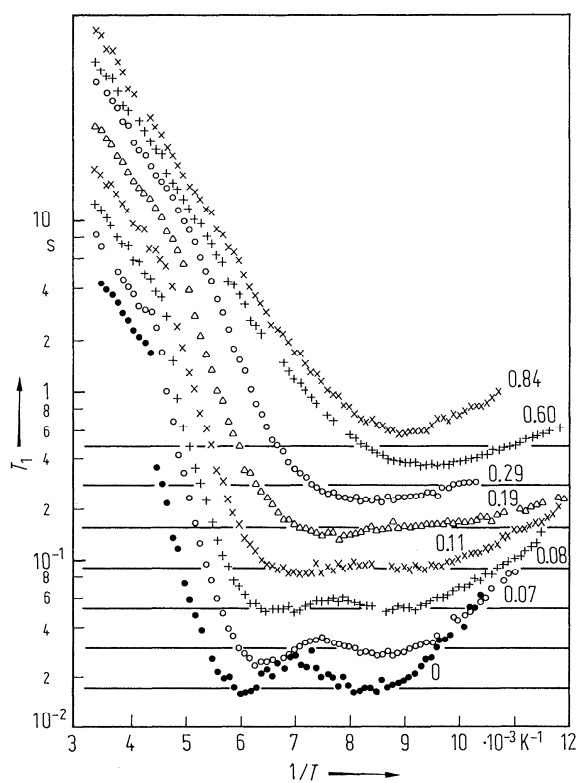
**Fig. 39B-1-006.**  $[(\text{NH}_4)_{1-x}\text{K}_x]_2\text{SO}_4$  (polycrystal).  $\kappa_c$  vs.  $T$  [87Ahm]. Parameter:  $x$ .



**Fig. 39B-1-007.**  $[(\text{NH}_4)_{1-x}\text{K}_x]_2\text{SO}_4$ .  $P_s$  vs.  $T$  [75Saw]. Parameter:  $x$ .



**Fig. 39B-1-008.**  $[(\text{NH}_4)_{1-x}\text{K}_x]_2\text{SO}_4$ .  $\delta(\Delta n_{ij})$  vs  $T$  [86Bur].  $\delta(\Delta n_{ij})$ : deviation of birefringence from the value at RT.



**Fig. 39B-1-009.**  $[(\text{NH}_4)_{1-x}\text{K}_x]_2\text{SO}_4$ .  $T_1$  vs.  $1/T$  [ $75 \text{ K}$ ]. Parameter:  $x$ .  $T_1$ : spin-lattice relaxation time of  $^1\text{H}$ .