
No. 1C-c22 $\text{PbTiO}_3\text{--PbZrO}_3\text{--ABO}_3$ (A = Na, K, La, Bi, Ba, Ca; B = Sb, Nb, Bi, Al, Cr, Fe)

1b Phase diagram: Fig. 1C-c22-001.

5a Dielectric constant: Figs. 1C-c22-002...1C-c22-003.

c Spontaneous polarization: Fig. 1C-c22-004.

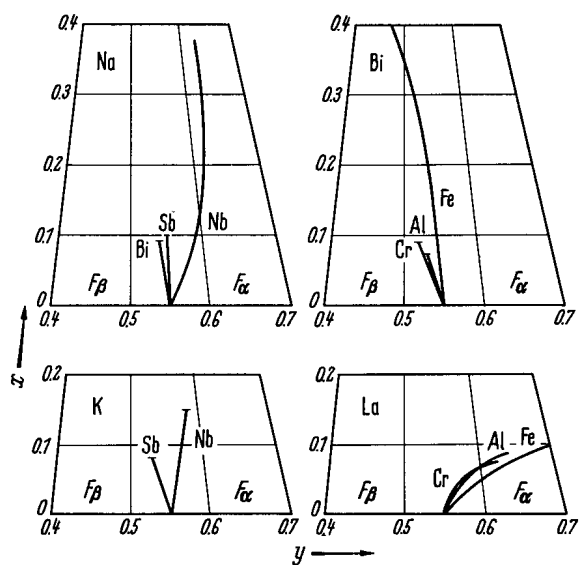


Fig. 1C-c22-001. $(1-x)\text{Pb}(\text{Ti}_{1-y}\text{Zr}_y)\text{O}_{3-x}\text{ABO}_3$ ($\text{A}^{1+} = \text{Na}, \text{K}; \text{B}^{5+} = \text{Nb}, \text{Sb}, \text{Bi}; \text{A}^{3+} = \text{La}, \text{Bi}; \text{B}^{3+} = \text{Al}, \text{Cr}, \text{Fe}$). Phase diagram [64Ike].

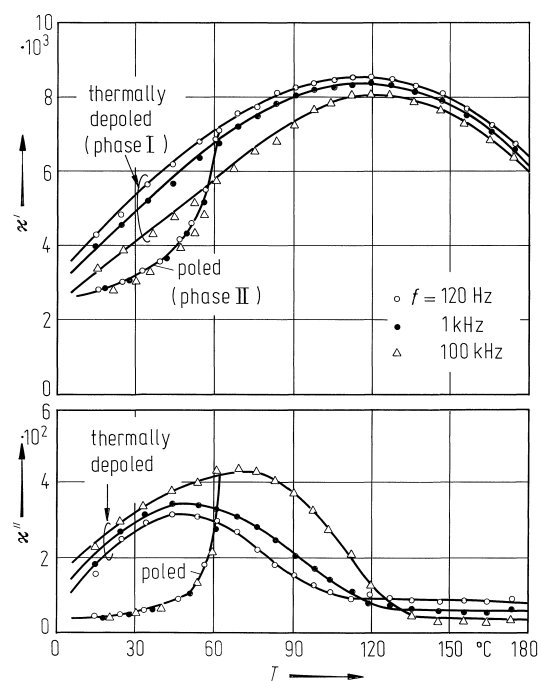


Fig. 1C-c22-002. $0.84 \text{ Pb}(\text{Zr}_{0.45}\text{Ti}_{0.55})\text{O}_3 \cdot 0.16 \text{ Ba}(\text{Ca}_{1/3}\text{Nb}_{2/3})\text{O}_3$ (ceramics). κ' , κ'' vs. T [86Yok]. Parameter: f .

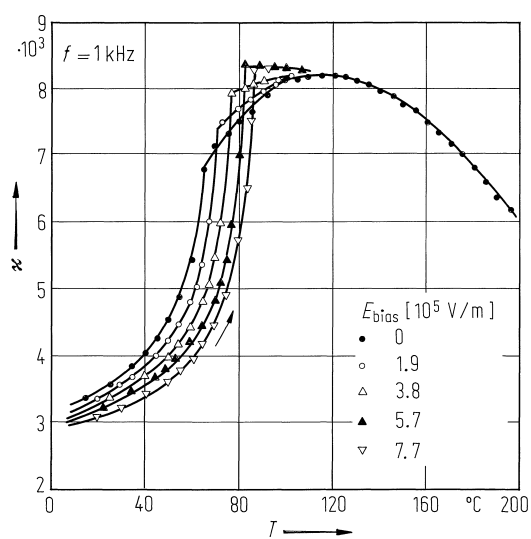


Fig. 1C-c22-003. $0.84 \text{ Pb}(\text{Zr}_{0.45}\text{Ti}_{0.55})\text{O}_3 \cdot 0.16 \text{ Ba}(\text{Ca}_{1/3}\text{Nb}_{2/3})\text{O}_3$ (ceramics). κ vs. T [86Yok]. Parameter: E_{bias} .

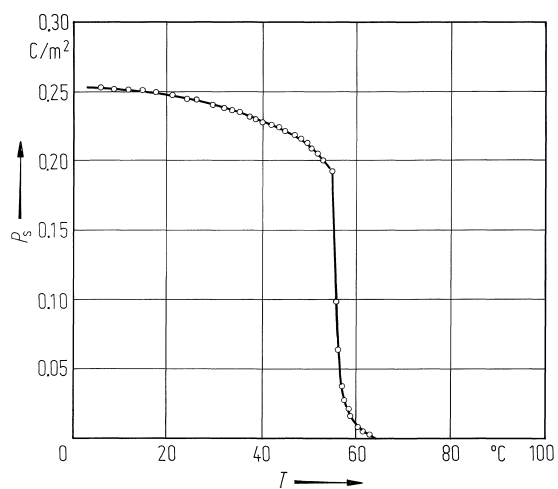


Fig. 1C-c22-004. $0.84 \text{ Pb}(\text{Zr}_{0.45}\text{Ti}_{0.55})\text{O}_3 \cdot 0.16 \text{ Ba}(\text{Ca}_{1/3}\text{Nb}_{2/3})\text{O}_3$ (ceramics). P_s vs. T [86Yok].

References

- 64Ike Ikeda, T.: Jpn. J. Appl. Phys. **3** (1964) 493.
85Yok Yokosuka, M., Ochiai, T., Marutake, M.: Jpn. J. Appl. Phys. **24**, Suppl. 24-3 (1985) 130.
86Yok Yokosuka, M.: Jpn. J. Appl. Phys. **25** (1986) 1183.