



# Properties of Perovskites and Other Oxides

By K. Alex Muller

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In this book some 50 papers published by K A Müller as author or co-author over several decades, amplified by more recent work mainly by T W Kool with collaborators, are reproduced. The main subject is Electron Paramagnetic Resonance (EPR) applied to the study of perovskites and other oxides with related subjects. This wealth of papers is organized into eleven chapters, each with an introductory text written in the light of current understanding. The contributions of the first editor on structural phase transitions have been immense, and because K A Müller and J C Fayet have published a review paper on the subject, the latter is reproduced in chapter VII. Not related to EPR is a part of chapter VIII on the dipolar and quantum paraelectric behavior with dielectric studies. In chapter X two papers proving the existence of Fermi glasses are reproduced.

The year 1986 bears some significance: early in this year the paper by Bednorz and Müller on the possible observation of superconductivity was published. This resulted in a substantial shift in the paradigm of condensed matter physics, to which the present first editor has contributed scientifically with others and which will be reviewed in a second volume.

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### **Review**

*"It is a pleasure to read such a systematic and historical overview, unifying various features of this area of research, all put into relation to each other by very helpful introductory comments by the authors." -- Ortwin Schirmer, Professor of Experimental Physics, University of Osnabrueck*

*"It is very useful to have a systematic overview of the physics of perovskites. Surely the way it is represented is helpful for researchers in this field." --Wim J A Maaskant, Retired Professor in Theoretical Chemistry, Leiden University*

### **From the Inside Flap**

In this book some 50 papers published by K A Mller as author or co-author over a period from 1959 till 2009, amplified by more recent work mainly by T W Kool with collaborators are reproduced. The main subject is Electron Paramagnetic Resonance (EPR) applied to the study of perovskites and other oxides with related subjects. This wealth of papers is organized into eleven chapters, each with an introductory text written in the light of current understanding. The contributions of the first author on structural phase transitions have been immense, and because K A Mller and J C Fayet have published a review paper on the subject, the latter is reproduced in chapter VII. Exceptions is here I have omitted the half sentence on chapter VI, it is EPR related whole chapter VIII on dipolar and quantum paraelectric behavior with dielectric studies. Further in chapter X two papers proving the existence of Fermi-Glasses are reproduced.

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