

(총회초청강연)

## **RECENT PROGRESSES IN ELECTRONIC MATERIALS (NON-SEMICONDUCTORS)**

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### **Abstract**

The electronic materials reviewed are practically all oxide compounds which encompass single to multi-compounds. Such compounds can be categorized, in terms of crystal chemistry, simple cubic, corundum, provskite-like, spinel, and others. Much progress has been made in the processing of oxide electronic materials to meet the requirements of newly developed sophisticated electronic devices. With the advent of semiconductors, passive and other functional devices are required to be miniaturized while retaining high quality. The functional devices are largely bulk and thick/thin forms. These forms can be either polycrystallines or single crystals.

The following areas are considered for discussion :

Materials : Bulk(polycrystallines and single crystals),  
Thick/Thin Films

Processing : Powder(precursor) preparations,  
Thick/Thin Film preparations

Applications : Bulk and Thick/Thin film devices

*Future trends in electronic devices are speculated and discussed.*