

Production and Property of Functional Thin Films



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Technical Support Skills	<ul style="list-style-type: none"> • Preparation of functional thin films • Electric resistance measurement of thin films at low temperature • Magnetic property measurement of thin films 		

Research Contents Production and Property of Functional Thin Films

We're studying about the various properties of the functional thin films like transparent conductive films and the ferromagnetic multilayer films. We produced these thin films by pulse electrodeposition method, sputtering method and vacuum evaporation.

Figure 1 shows a schematic diagram of the Co-Cu ferromagnetic multilayer film produced by pulse electrodeposition method.

Figure 2 shows the transparent conductive film produced by RF sputtering method.

We're possible to measure electric resistance and magnetic properties of these films at low temperature.

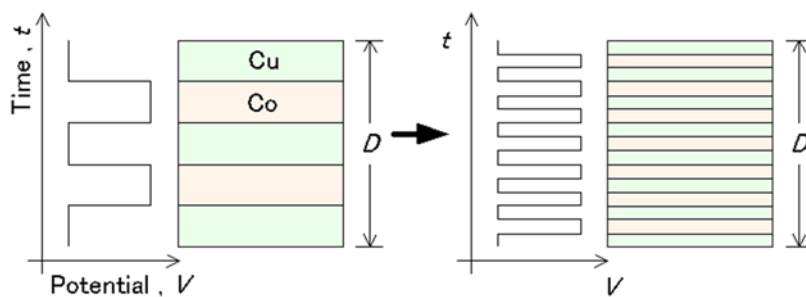


Fig.1 Co-Cu multilayers and alloy films produced by pulse electrodeposition method.

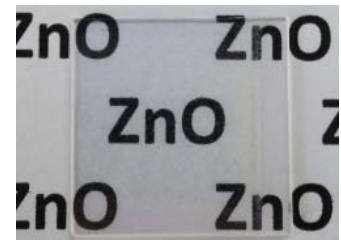


Fig.2 Transparent conductive film.

Available Facilities and Equipment

RF sputter deposition system	
VSM (Micro Sense)	
Cryostat	