

## AMMR-27 ELECTROCHEMICAL TECHNOLOGY IN MATERIALS PROCESSING

1. Thermodynamics of electrolyte, electrochemical potential, conduction of ions in solution, over potential.
2. Absorption, phase formation, economics of an electrolyte process, principles of cell design.
3. Electrochemical technology, electrowinning, electro refining, metal electro forming
4. Electrochemical machining, electroplating, anodizing, pickling, electrophoretic painting.
5. Electrochemical treatment of minerals, batteries and cells, water treatment and environmental protection.

### Reference Books:

1. Comprehensive Materials Processing 1st Edition Editor in Chief: Saleem Hashmi

