

Permanent Magnet Fundamentals

Summary

A course designed to help people who use permanent magnets in their work to understand the many complicated and subtle features of these materials. The course is well-suited for people with a technical background, with little or no previous experience with permanent magnets.

- Welcome
- Background
- Magnetic Theory
 - Hysteresis
 - Three materials
 - Three vectors
 - Units and Conversions
- Ferromagnetism
 - Spin
 - Exchange
 - Anisotropy
 - Curie temperature
- Permanent magnets
 - Processing
 - Magnetizing
 - Magnetic Measurements
 - Thermal Effects
- Summary

Stan Trout

October 3, 2009

Spontaneous Materials

www.spontaneousmaterials.com

strout@ieee.org

+1-317-596-0858