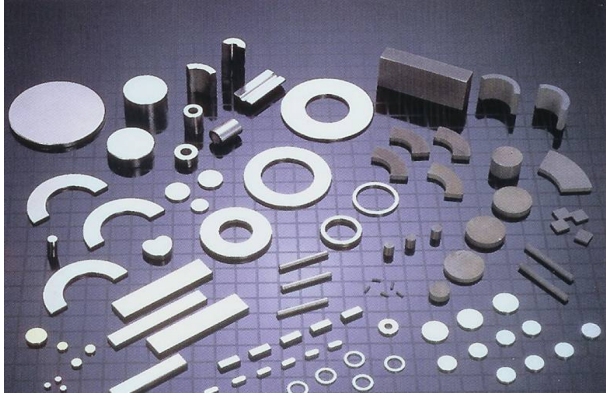


Workshop Agenda



Magnetizing & Testing

By Jim Wise, representing Magsys Magnet Systems

MAGNETIZING EQUIPMENT

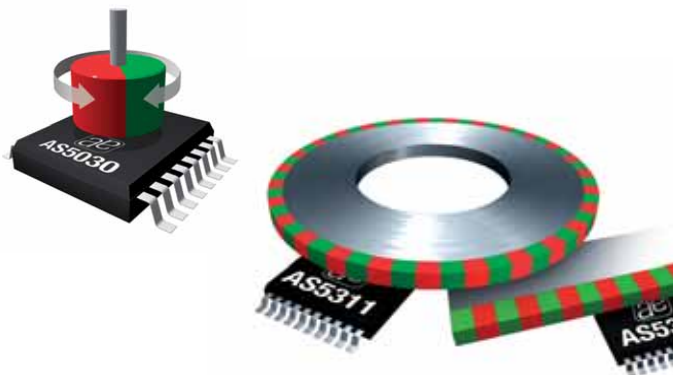
- MAGNETIZING CONFIGURATIONS
- TYPES OF MAGNETIZERS AND SUITABILITY
- DEMAGNETIZING AND CYCLING
- ELECTRONICS AND PROCESSING

MAGNETIZING FIXTURES

- TYPES AND PROCESSING REQUIREMENTS
- COOLING AND LIFE EXPECTANCY

TESTING EQUIPMENT

- REQUIREMENTS FOR MAGNET PROPERTIES
- TYPES OF INSTRUMENTS



Magnetic Materials

By Alliance LLC: Dan Vukovich, Bob Wolf, Jim Wise

PROPERTIES AND TERMINOLOGY

- HYSTERESIS LOOP
- REMANENCE, COERCIVITY & ENERGY PRODUCT
- TEMPERATURE CHARACTERISTICS
- CHEMICAL AND PHYSICAL PROPERTIES

SELECTION CRITERIA

- INDIVIDUAL MAGNET CHARACTERISTICS
- AVAILABILITY AND PRICING ISSUES
- GLOBAL TRENDS AND SUPPLIER ISSUES

DESIGN CONSIDERATIONS

- APPLICATION AND ENVIRONMENTAL LIMITS
- REQUIRED SPECIFICATIONS ON DRAWINGS

MODELING SOFTWARE & METHODS

- BASICS FOR SETTING UP AND LIMITATIONS
- EXAMPLE OF A MAGNETIC CIRCUIT USING FEM
- IN HOUSE SOFTWARE VS. TURN KEY SOLUTIONS
- PROS AND CONS OF AVAILABLE SOFTWARE



Magnetic Sensors

By Austria Microsystems USA

CONTACTLESS TECHNOLOGY

- ROTARY AND LINEAR MOTION DETECTION CIRCUITS
- ON-AXIS AND OFF-AXIS ROTATION ANGLE MEASUREMENT
- LINEAR POSITION MEASUREMENTS
- RELIABILITY AND ACCURACY

CHOOSING THE CORRECT SENSOR

- INTEGRATED HALL EFFECT IC
- ANGLE AND POSITION SENSORS

SPECIALIZED DESIGN TECHNIQUES

- EXTENDING VERTICAL RANGE
- ANGLE ERRORS AND MISALIGNMENT
- FIELD NON-LINEARITY AND MAGNETIC OFFSET