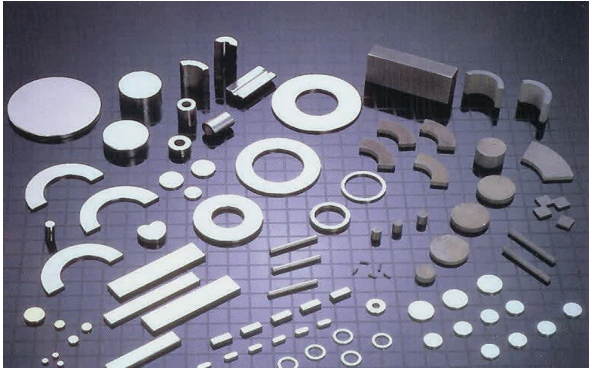


Workshop Agenda



Magnetic Sensors

CONTACTLESS TECHNOLOGY

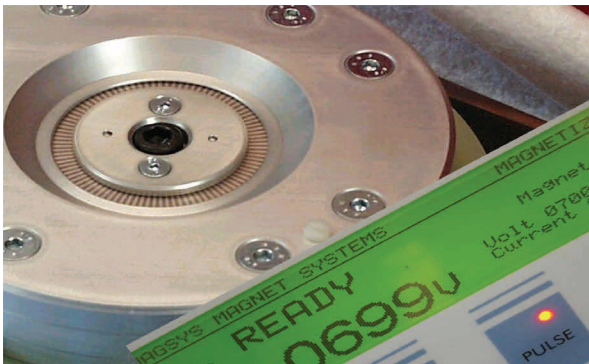
- ROTARY AND LINEAR MOTION DETECTION CIRCUITS
- ON-AXIS AND OFF-AXIS ROTATION ANGLE MEASUREMENT
- LINEAR POSITION MEASUREMENTS
- RELIABILITY AND ACCURACY

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



Schedule:

- 9:00 AM START OF WORKSHOP WITH BRIEF INTRODUCTION TO PARTICIPANTS, **SNACKS AND BEVERAGES SERVED**
- 9:15 AM 90 MINUTE PRESENTATION ON MAGNETIC MATERIALS, **15 MINUTE Q&A SESSION**
- 11:00 AM 60 MINUTE PRESENTATION ON TYPES AND USAGE OF MAGNETIC MODELING SOFTWARE
- 12:00 PM BREAK FOR BUFFET LUNCH IN DINING ROOM
- 1:00 PM 90 MINUTE PRESENTATION ON MAGNETIZING & TESTING EQUIPMENT, **15 MINUTE Q&A SESSION AND BREAK**
- 2:45 PM 90 MINUTE PRESENTATION ON MAGNETIC SENSORS, **15 MINUTE Q&A SESSION. CONFERENCE ENDS BY 5 PM**

Magnetic Materials

PROPERTIES AND TERMINOLOGY

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

SELECTION CRITERIA

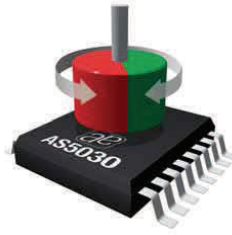
- INDIVIDUAL MAGNET CHARACTERISTICS
- AVAILABILITY AND PRICING ISSUES
- GLOBAL TRENDS AND SUPPLIER ISSUES

DESIGN CONSIDERATIONS

- APPLICATION AND ENVIRONMENTAL LIMITS
- REQUIRED SPECIFICATIONS ON DRAWINGS
- INFLUENCE OF FURTHER PROCESSING

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



Magnetizing & Testing

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