COURSE 1
1 Day
May 6, 9, & 10
Fee: $185

MANAGER-LEVEL OVERVIEW OF MICROPROCESSORS AND MICROCOMPUTERS
This course provides corporate, engineering and production management with the fundamental concepts and necessary technical information to capitalize upon the impact of microprocessors and microcomputers on sales, product quality, production and inventory costs. The lectures and notes will provide guidelines for making decisions involving this rapidly expanding technology. What are microprocessors and microcomputers? Historical evolution of micro technology. Suitable and unsuitable applications. Personnel and equipment to get started. Estimating design and implementation costs. No prior knowledge of engineering or computer technology is required.

COURSE 2
2 Days
May 5-6, May 7-8
Fee: $305

MICROPROCESSORS/MICROCOMPUTERS
A comprehensive technical introduction
- Introduction to Microprocessors and Microcomputers
- Basic elements of a microprocessor system
- Comprehension survey of available microprocessors and microcomputers, including: Intel 4004/40040, 8080, 8086, 3000; Monolithic Memories 5701/6701; Motorola M6800; National Imp 8, Imp 16, Rockwell PPS-4, PPS-8; expected near-term advances and future trends
- Microprocessor/microcomputer selection
- Advanced techniques of microcomputer system design, including multi-microprocessor systems
- Systems implementation techniques
- Estimating hardware and software system design and development costs

COURSE 3
2 Days
May 7-8
Fee: $305

SOFTWARE DEVELOPMENT FOR MICROCOMPUTERS
- Fundamental microcomputer and software concepts
- Development of logic-replacement functions with software
- Software oriented comparison of microcomputer architectures (benchmark program examples)
- In-depth study of development systems (Intellic, IMP-16L, Exorciser, Assamulator)

COURSE 4
2 Days
May 7-8
Fee: $325

APPLICATIONS-ORIENTED SURVEY OF MICROPROCESSORS
Illustrating the most important features of microprocessors by examining in detail an application of each of the popular microprocessors, including: Intel 4004, 8080, Motorola M6800; National Imp 16, Pace; Rockwell PPS-4. Each application will illustrate the system configuration (including block diagram), interface design, program organization (functional flowcharts), some programming details, costs, and micro selection factors. Applications include: Instrumentation, process/machine control, communications, distributed intelligent terminals. Assumes some prior knowledge of microprocessors.

COURSE 5
2 Days
May 5-6
Fee: $305

MINICOMPUTER SYSTEM DEVELOPMENT
- Comprehensive introduction to minicomputers
- Suitable and unsuitable applications for minicomputers
- Basic elements of a minicomputer system
- Interfacing techniques and 1/0 structures
- Survey of available minicomputers, including Data General, General Automation, Digital Equipment, Interdata, Vario and others
- Minicomputer system evaluation, selection, and purchase

COURSE 6
2 Days
May 8-9
Fee: $325

MINICOMPUTER REAL-TIME SOFTWARE
Various applications including data acquisition, process control and communication, are discussed to identify their needs in a real-time executive, and to emphasize their affect on the design of the various key elements of the system, including scheduling, data structuring, interprogram communication, and memory management. Assumes some prior knowledge of minicomputer systems.