visits • Management; service • Just-in-time capabilities • The criticality of qualifying sources • Competitive bidding and negotiation • Five prerequisites for competitive bidding • Four conditions favoring negotiation • Two-step bidding/negotiation • The solicitation • Selecting the source

13 International/Global Sourcing
• Benefits and risks of international/global sourcing • Potential problems • Common definitions • Starting an international/global sourcing program • Supply channels • International intermediaries • International procurement office • Direct purchasing • Identifying and qualifying potential international suppliers • Preparing for direct relations: intercultural preparation; interpreters; technical and commercial analysis • Currency and payment issues • Letters of credit • The European Community/Union • The North American Free Trade Agreement (NAFTA) • Countertrade • Internationalizing the procurement process

14 Pricing Principles
• General economic considerations • Conditions of competition • Variable-margin pricing • Differences between products • Six categories of cost • Regulation by competition • Price analysis • Purchasing design work • All-in-cost/total cost of ownership • Documenting a price increase • Trade discounts; quantity discounts; seasonal discounts; cash discounts • Legal implications of pricing

15 Cost Analysis
• Cost analysis defined • Sources of cost data • Direct costs: labor and materials • Learning curves • The cumulative curve and the unit curve concepts • Application of learning curves • Pitfalls in using learning curves • Tooling costs • Indirect costs • Activity-based costing/management • Target costing • Profit

16 Dealing with Cost Uncertainty: Types of Compensation Agreements
• Introduction to compensation agreements • Contract cost risk appraisal • Fixed price contracts • Incentive contracts • Cost-type contracts • Firm fixed price contracts • Fixed price with economic adjustment contracts • Fixed price redetermination contracts • Incentive arrangements • Cost plus incentive fee arrangements • Cost plus fixed fee arrangements • Cost plus award fee • Cost without fee • Cost sharing • Time and materials • Letter contracts and letters of intent • Considerations when selecting contract types
CONTENTS

PART 4  SPECIAL PURCHASES  383

18  Purchasing Capital Equipment  385

- Differences in the procurement of capital equipment  
  Nonrecurring purchases  
  Nature and size of expenditure  
  Considerations in source selection  
  Team selection of equipment  
  Life cycle cost analysis  
  Procedure for the purchase of capital equipment  
  Purchasing’s role in capital equipment procurement  
  The used equipment market  
  Reasons for purchasing used equipment  
  Cautions in purchasing used equipment  
  Leased equipment  
  Types of leases  
  Advantages and disadvantages of leasing  
  Cost analysis—the decision process

19  Purchasing Services  408

- Hidden opportunities  
  Planning the statement of work  
  Writing the statement of work  
  Selecting service contractors  
  Compensating service suppliers  
  Professional services  
  Technical services  
  Operating services  
  Contract administration  
  Purchasing construction services

PART 5  CONTRACT ADMINISTRATION  423

20  Postaward Activities and The Management of Supplier Relations  425

- Ensuring understanding  
  Preaward conference  
  Monitoring and controlling project progress  
  Gantt Charts  
  CPM and PERT  
  Closed loop MRP systems  
  Supplier performance evaluation  
  Motivation  
  Training  
  Quality audits and procurement system reviews  
  Problem solving  
  Supplier surveys  
  Partnerships  
  Managing the relationship

21  Managing For Quality  451

- Total quality management (TQM)  
  Basic concepts of quality  
  The role of purchasing and supply in quality management  
  Specification of
PART 6 MATERIALS MANAGEMENT ACTIVITIES

22 Production Planning

- Fundamentals of production planning
- Modern production planning systems
- Aggregate planning and master scheduling
- Material requirements planning (MRP)
- Capacity requirements planning (CRP)
- Control of shop floor activities
- Management considerations
- The closed loop MRP system
- The MRP II system
- Impact of MRP systems on purchasing and supply
- Buyer-planner concept
- Supplier-scheduler concept
- Contract buying
- Supplier flexibility and reliability
- Relationships with suppliers
- Just-in-time systems (JIT)
- Applications
- Impact on purchasing and supply

23 Inventory Management

- Functions of inventories
- Types of inventories
- The ABC concept; 80/20 analysis
- Dependent and independent demand
- Inventory costs
- The EOQ concept
- Types of control systems
- Cyclical/fixed order interval system
- Flow control system
- JIT inventory system
- MRP inventory system
- Order point/fixed order quantity systems
- Two-bin system
- Applications and comparisons of various systems

24 Warehouse and Stores Management

- Responsibility of receiving and stores
- Receiving procedures and control
- Bar coding
- External identification systems
- Internal identification systems
- Stores systems and procedures
- Closed system
- Open system
- Random-access storage system
- Storage methods and equipment
- Automated storage and retrieval system
- Layout
- Organization

25 Traffic

- Carrier selection and routing
- Domestic shipping terms/F.O.B terms
- International shipping terms/incoterms
- Modes of transportation
- Types of carriers: common, contract, and private
- Regulation and deregulation
- Class rates and commodity rates
- Expediting and tracing
ships • Loss and damage of freight • Demurrage • Freight bill audits • Transportation strategy • Purchasing transportation services • Strategic alliances with carriers • Cost reduction projects • The role of purchasing and supply in traffic

26 Investment Recovery: The Management of Surplus Materials and Environmental Considerations

• Problems and opportunities • Profit and environmental considerations • Primary sources of surplus • Scrap and waste • Obsolete and damaged stocks • Obsolete and damaged equipment • Investment recovery departments • Role of materials management and purchasing and supply management • Disposal of surplus • Advantages of buying surplus materials • Specialized dealers • Knowledge of markets • Managing and disposing of hazardous materials • Regulatory acts • Specific problems • Approaches to managing the problems • Hazardous waste disposal • Conclusion—the need for national materials policies

PART 7 GENERAL MANAGEMENT RESPONSIBILITIES

27 Developing and Managing the Buying Plan

• Reactive and proactive purchasing • The annual operating plan • The materials budget • Volume and timing decisions • Stable markets • Unstable markets • Timing of purchases • Buying to requirements; forward buying; hand-to-mouth buying • The annual buying plan • Purchasing research: demand analysis; market analysis; supplier analysis • Buying plan objectives • Buying strategy • Contract buying • Small orders • Handling the “in-between” materials • Hedging • Strategic materials planning

28 Value Analysis/Engineering

• What is value analysis? • Value engineering compared with value analysis • Design analysis • Value analysis checklist • Functional cost approach • Brainstorming • Use of suppliers • Cost analysis • Value analysis study • Examples of value analysis • Production parts and assemblies • Packaging • Systems/service applications • Conditions conducive to value analysis • Organization and administration • Reporting value analysis/savings

29 Appraisal, Control, and Reports

• Control concepts • Problem prevention • Problem detection; postaction control process • Appraising and controlling procurement
performance • Purchasing and supply management review • Controlling
the timing factor • Controlling quantity and inventory investment •
Controlling prices and costs of materials • Controlling material quality •
Controlling source reliability • Managing supplier relationships; supplier
councils • Controlling internal coordination • Controlling procurement
efficiency; buyer models • Guidelines for development and use of control
systems • Industry's ten most commonly used measurements • The
CAPS benchmarking program • One firm's progressive approach to
appraisal and control • Reports to management

30 Legal Considerations 698
• The Uniform Sales Act • The Uniform Commercial Code • Status of
an agent • Elements of the purchase contract • Inspection and rejection
rights • Title • Warranties • Order cancellation and breach of contract;
liquidated damages • JIT contracts • Arbitration • Honest mistakes •
Patent infringement • Restraint of trade laws • Product liability in
purchasing • International considerations • Convention on the
international sale of goods (CISG) • The Foreign Corrupt Practices Act •
The buyer's responsibility

31 Ethical and Professional Standards 720
• Ethics in society • Professional purchasing ethics • NAPM's
Principles and Standards of Purchasing Practice • Avoiding sharp
practices • Competitive bidding • Negotiation • Samples • Treating
sales people with respect • Substandard materials and services • Gifts
and gratuities; free lunches • Written ethics standards • Ethics training;
professional training • The department environment • The
responsibilities of a purchasing professional • Ethics and true
professionalism

PART 8 INSTITUTIONAL AND GOVERNMENT PURCHASING 743

32 Purchasing for Institutions and Governmental Organizations
• Background; similarities and dissimilarities with industrial purchasing •
Sources of authority and procedure • Roles of the purchasing agency •
Products and services purchased; functions performed • The purchasing
cycle • Planning and scheduling • Requisitioning goods and services •
Identifying and organizing potential sources of supply • Establishing
sources of supply • Contract administration • External environmental
factors • Internal environmental factors • Organizational issues •
Performance measurement • Ethics • Professional development issues •
Socioeconomic issues
PART 9 CASES FOR STUDY AND ANALYSIS

SELECTED BIBLIOGRAPHY
INDEXES
Case Index 941
Name Index 943
Subject Index 949