



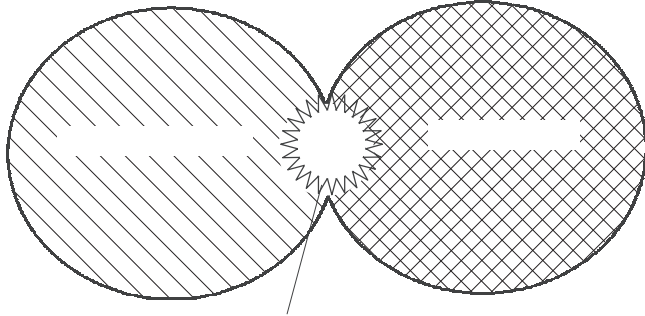
1.1 INTRODUCTION

1.2 ROOTS OF COMPUTER NETWORKS

KEY WORDS

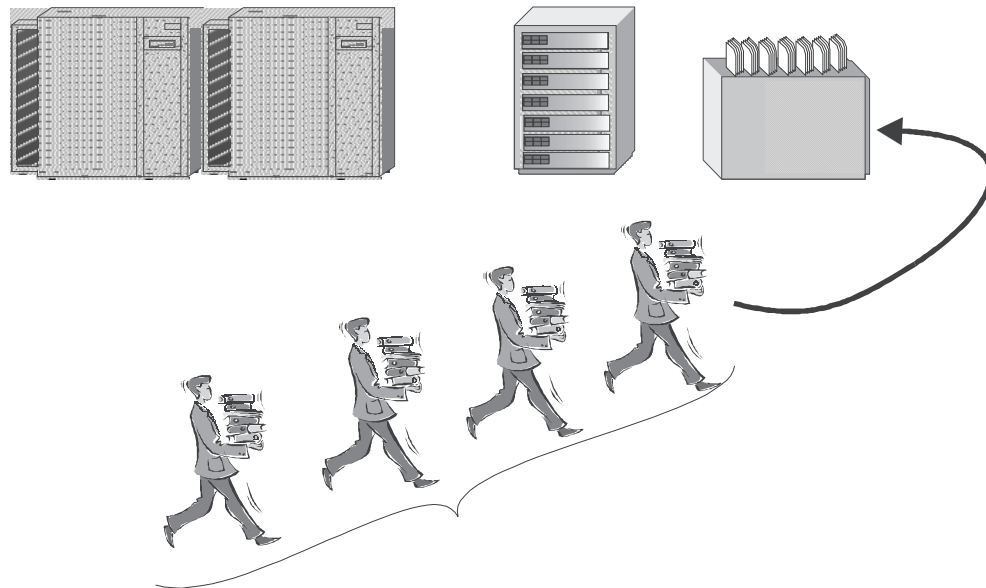
1.2.1 Computer Networks as a Result of the Computing and Communications Technologies Evolution

computer networks



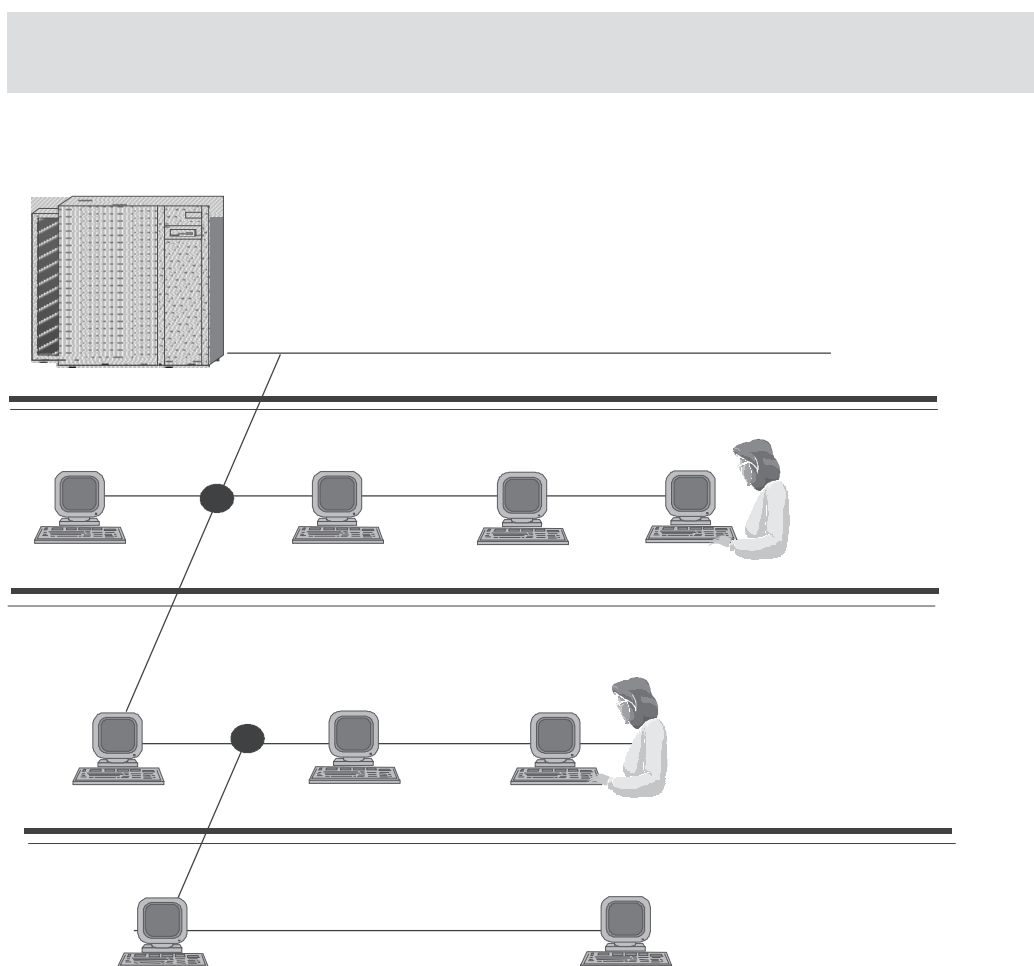
datacom data-transmission networks

1.2.2 Batch Processing Systems



Batch-processing systems

1.2.3 Multiterminal Systems: Prototype of the Computer Network





1.3 FIRST COMPUTER NETWORKS

KEY WORDS

1.3.1 First Wide Area Networks (WANs)

Wide Area Networks (WANs)

■
telephone networks

bursty traffic

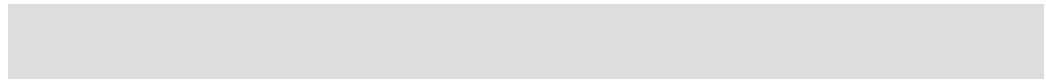
packets

packet switching

ARPANET

Internet

network operating systems

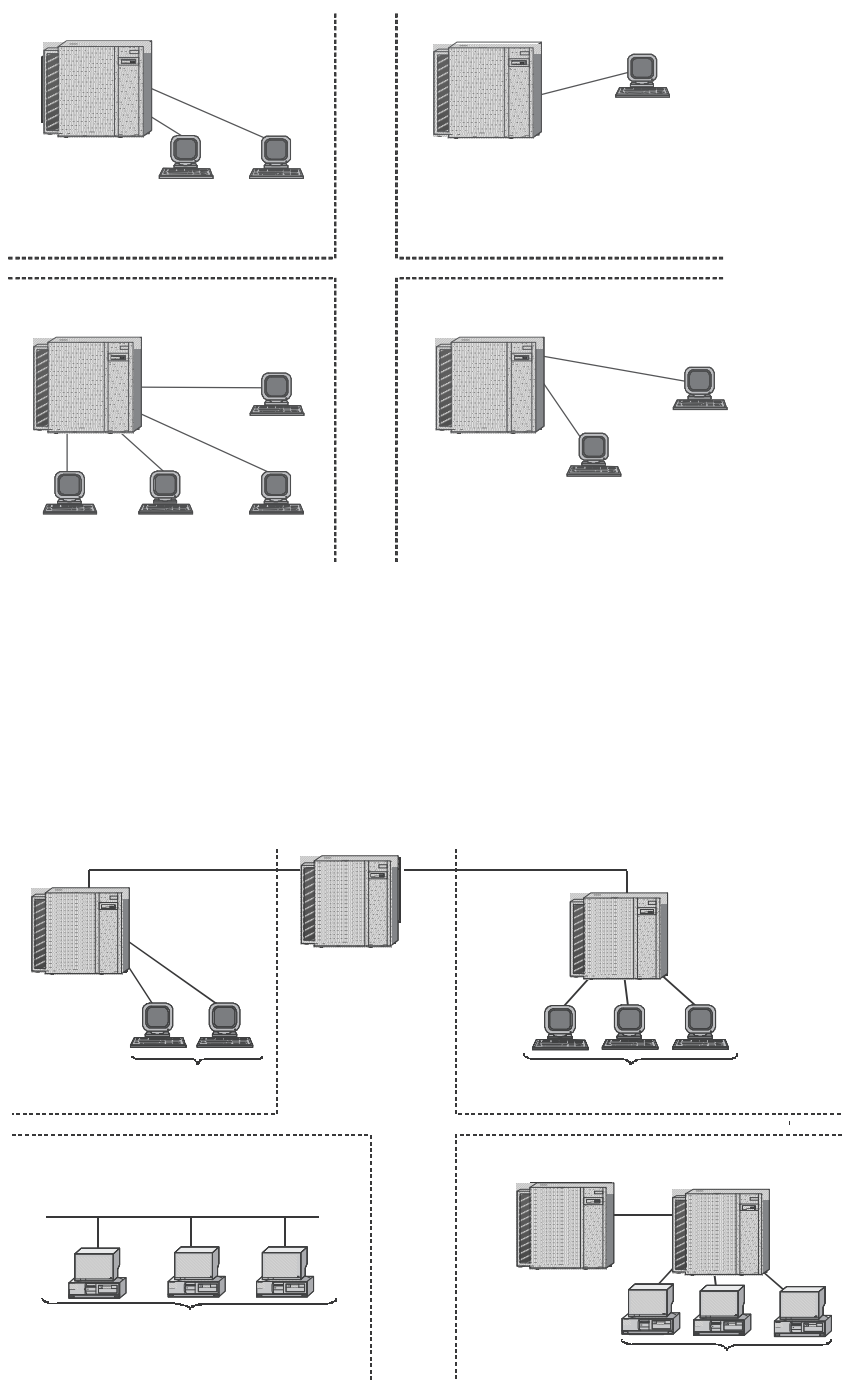


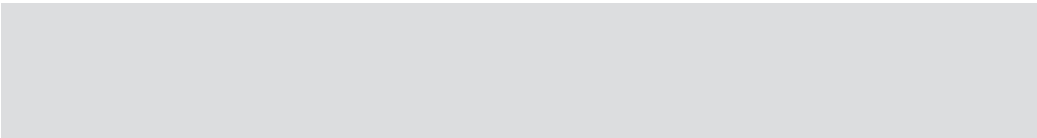
mission networks

backbones

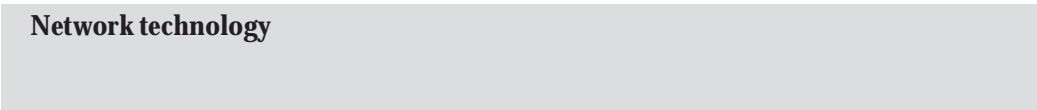
trans-

1.3.2 First Local Area Networks (LANs)



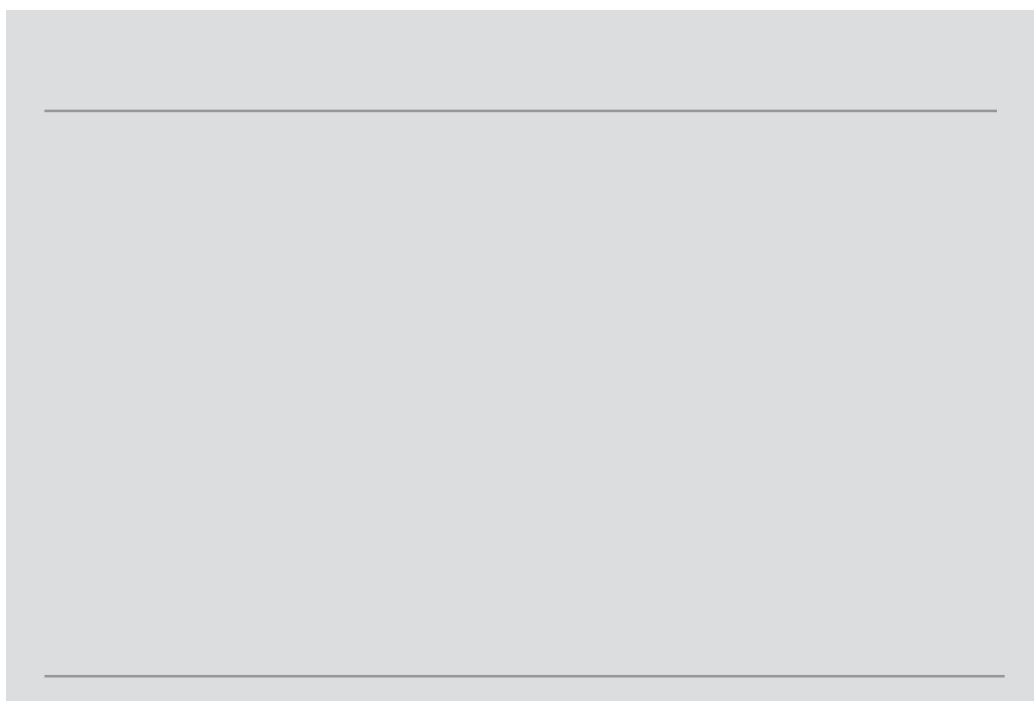
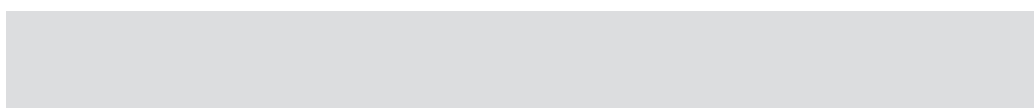


Network technology



Standard technologies







1.4 CONVERGENCE OF NETWORKS

KEY WORDS

1.4.1 Convergence of LANs and WANs

intranet

Networks (MANs)	Metropolitan Area
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1.4.2 Convergence of Computer and Telecommunications Networks

multiservice networks,

data networks

Intelligent Network (IN)

Quality of Service (QoS)

tions networks

infocommunica-



SUMMARY

REVIEW QUESTIONS

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PROBLEMS

1.

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