

CONTENTS

1. A NEW APPROACH FOR THE INDUSTRY OF DEVELOPING COUNTRIES	1
2. INTRODUCTION TO CAD/CAM	3
3. SYSTEM HARDWARE	3
4. CAD/CAM JUSTIFICATION	16
5. FUNCTIONS OF CAD/CAM	23
6. CAD/CAM SYSTEM EVALUATION AND SELECTION	38
7. COST INVESTMENT ANALYSIS OF SYSTEM INSTALLATION	55
8. INSTALLATION OF THE CAD/CAM SYSTEM	58
9. MANAGEMENT APPROACH FOR IMPLEMENTATION OF A CAD/CAM SYSTEM	66
10. IMPACT OF CAD/CAM APPLICATION ON THE ORGANIZATION	70
11. SOLID MODELLING AND CAD/CAM APPLICATIONS PROGRAMMES	76
12. GROUP TECHNOLOGY	85
13. COMPUTER-AIDED PROCESS PLANNING	96
14. THE APPLICATION OF ARTIFICIAL INTELLIGENCE TECHNIQUES IN MANUFACTURING	105
15. CAD/CAM ROBOTIC APPLICATIONS	110
16. THE SIGNIFICANCE OF PERSONAL COMPUTERS IN CAD/CAM FOR SMALL-SCALE METALWORKING INDUSTRY	119
17. FUTURE OUTLOOK OF CAD/CAM	125
Annex – Glossary of CAD/CAM terms	128