

CHAPTER	PAGE
1. AN INTRODUCTION TO FOOD ENGINEERING	1
2. THE MATERIAL AND ENERGY BALANCE	32
3. FLOW OF FLUID FOOD	47
4. TRANSFER OF HEAT	107
5. METHODS FOR THERMAL PROCESS EVALUATION	170
6. THE FREEZING AND THAWING OF FOODS	209
7. EVAPORATION	231
8. DEHYDRATION OF FOODS	252
9. FREEZE DRYING	359
10. DISTILLATION	382
11. EXTRACTION	417
12. MASS TRANSFER	440
13. FILTRATION	457
14. THE STRENGTH OF FOOD MATERIALS AND EQUIPMENT	474
15. KINETICS OF BIOLOGICAL REACTIONS	510
APPENDIX A: FOOD ENGINEERING DATA	524
APPENDIX B : NOMENCLATURE	567
INDEX	587