

CONTENTS

Chapter	1. Introduction	1
	2. The problem	3
	3. General considerations	9
	4. Process design – furnace	14
	5. Quench units	41
	6. Design of condensers	58
	7. Absorption unit	68
	8. Combined crude storage	90
	9. Acetone distillation unit	91
	10. Acetic anhydride column	106
	11. Heat balance	107
	12. Mechanical design of absorption tower	110
	13. Instrumentation	116
	14. Materials of construction	119
	15. Storage of materials and safety precautions	121
	16. Final considerations	122
References		123
	Appendix A. Properties of process gas	125
	Appendix B. Vapour heat capacities	128
	Appendix C. Composition of reaction mixture	130
	Appendix D. Heat capacity	131
	Appendix E. Viscosity	133
	Appendix References	135