

THE FINAL DESIGN REPORT

1. FRONT MATTER

- Letter of Transmittal
- Title Page
- Executive Summary
- Nomenclature
- Table of Contents
- List of Tables
- List of Figures

2. INTRODUCTION

Problem Statement

- purpose, scope, importance of work
- fairly brief, give history if important
- easy to understand, non-technical description

Objective Statement

- very concise
- focus problem statement
- stipulate deliverables of design process

3. BACKGROUND

- Relevant literature info
- Constraints, assumptions
- Criteria for evaluation
- other considerations

4. METHOD

- details of design methodology
- analysis techniques
- evaluation procedure for alternatives
- description of models used, calculations and formulae applied with results,
discussion of outcome, etc..
- discuss idea refinement iterations - why, how, modifications

5. RESULTS

- final alternative, fully developed and evaluated
- describe all aspects of design solution
- drawings, sketches, plans, specifications, cost data, suppliers, etc..
- performance review data presented

6. DISCUSSION

- explanation of outcome
- significance of results

7. CONCLUSIONS

- brief, concise
- matched to objective statement

8. RECOMMENDATIONS

- ideas for future improvements

9. REFERENCES

- list in accepted format (IEEE, CJChE)

10. APPENDICES

- detailed calculations
- drawings, sketches, tables
- reference material not readily available
- copy of original letter of request