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CHAPTER 1. INTRODUCTION

1.1 Motivation of the Project

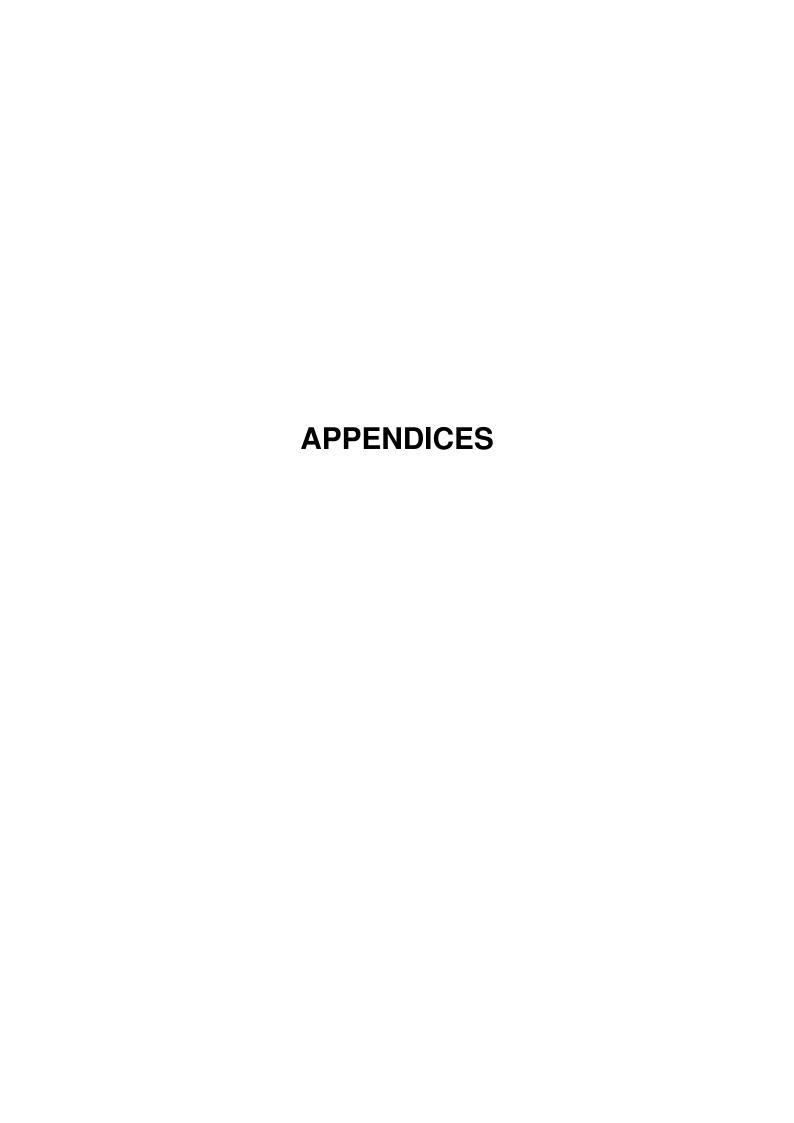
CHAPTER 2. MODELING MAGNETIC INDUCTION SYSTEM

CHAPTER 3. ARCHITECTURE AND DESIGN OF THE WPT SYSTEM

CHAPTER 4. EXPERIMENTAL RESULTS

CONCLUSIONS

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APPENDIX A. INDUCTANCE CHARACTERIZATION

- **A.1 Inductance Estimation Table**
- A.2 Equivalent coil impedance

APPENDIX B. MODEL EQUATIONS

B.1 Secondary capacitor in series

B.2 Secondary capacitor in parallel

The same steps as above are followed for obtaining the impedances Z_2 and Z_R when the secondary capacitor is placed in parallel:

APPENDIX C. COILS EXPERIMENTAL RESULTS

- **C.1** Inductance and Resistance
- C.2 Quality Factor

APPENDIX D. CIRCUIT SCHEMATICS

D.1 Voltage Regulator