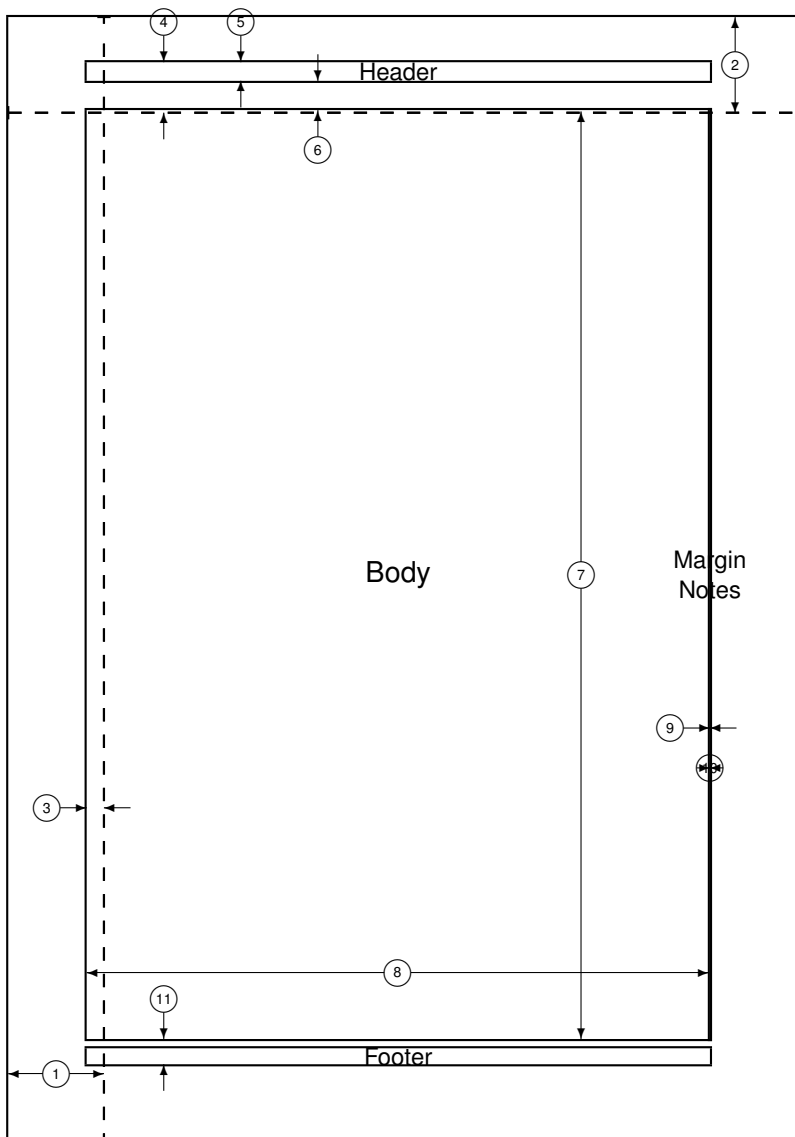


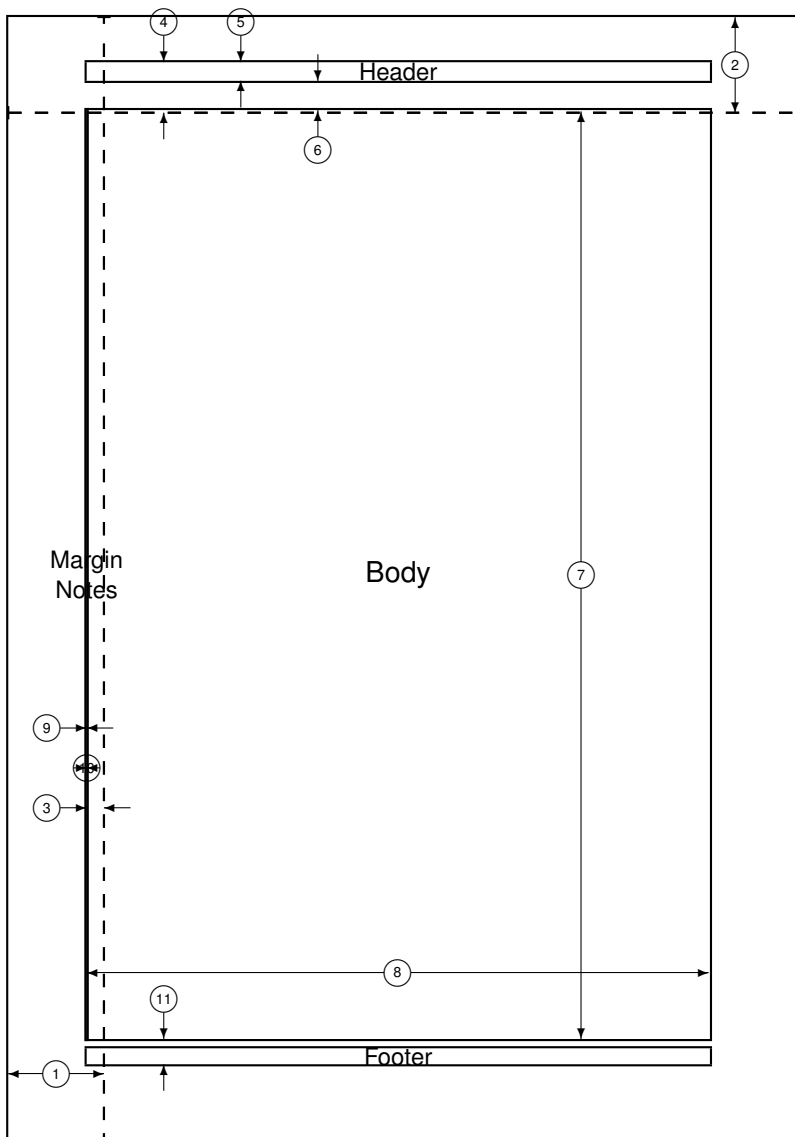


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| 3  | $\text{\oddsidemargin} = -13\text{pt}$ | 4  | $\text{\topmargin} = -38\text{pt}$               |
| 5  | $\text{\headheight} = 14\text{pt}$     | 6  | $\text{\headsep} = 22\text{pt}$                  |
| 7  | $\text{\textheight} = 699\text{pt}$    | 8  | $\text{\textwidth} = 469\text{pt}$               |
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| 11 | $\text{\footskip} = 19\text{pt}$       |    | $\text{\marginparpush} = 7\text{pt}$ (not shown) |
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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





# BIBLIOGRAPHY



# **CHAPTER 5. INDUCTANCE CHARACTERIZATION**

## **5.1 Inductance Estimation Table**

## **5.2 Equivalent coil impedance**



# CHAPTER 6. MODEL EQUATIONS

## 6.1 Secondary capacitor in series

## 6.2 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:



# **CHAPTER 7. COILS EXPERIMENTAL RESULTS**

## **7.1 Inductance and Resistance**

## **7.2 Quality Factor**





# CHAPTER 8. CIRCUIT SCHEMATICS

## 8.1 Voltage Regulator