

PREFACE

Praise be to Allah SWT for His Grace and Gifts, so that the author can complete this thesis entitled” **Production of Acidic and Alkaline Water Through Water Ionization by Electrolysis Method for PH & Moisture Soil Using Solar Cell Modules**” to be submitted to fulfill one of the requirements of obtaining a Master’s degree in Electrical Engineering. May prayers and peace be always upon the Prophet Muhammad SAW, family, friends, and his followers. Aamiin.

Designing a system to produce alkaline and acidic water that will be utilized in the agricultural sector is necessary to improve food health. This thesis proposes the Production of Acidic and Alkaline Water Through Water Ionization by Electrolysis Method for Agricultural Fertilizers Using Solar Cell Modules to meet the Indonesian government’s target of increasing food and achieving net zero emissions by 2060. In addition, it is also to cover the shortcomings of previous research. The results of this thesis are still novice, so it is open to researchers to further explore and develop further.

Unintentional errors in this thesis may not be realized by the author. Therefore, suggestions from the readers are highly expected to improve this thesis. Finally, the author hopes that this thesis can be useful, especially for those who are interested and want to know more about rateless channel coding techniques.

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