



Ministry of Higher Education  
and Scientific Research  
Basrah University \_ Collage  
of Science



# Theoretical study of short backfire antenna as a body Revolution

*A Thesis*

Submitted to the Collage of Science

University of Basrah

In Partial Fulfillment of the requirements

For the Degree of Master of Science in Physics

*By*

**Ali Kareem Neamah Al-zuwaini**

B. Sc. in Physics

(Kufa 2015)

Supervised by

Prof. Dr. **Zeki A. Ahmed**

prof. Dr. **Wa'il A. Godaymi**

1442 هـ

2021 م