

# BOUNDARY THEOREMS FOR A FUNCTION MEROMORPHIC IN THE UNIT CIRCLE.

By

E. F. COLLINGWOOD and M. L. CARTWRIGHT.

Lilburn Tower,  
Alnwick.

Girton College,  
Cambridge.

## Table of Contents

	Page
§ 1. Introduction .....	84
<b>Part I. Boundary Theorems in the Large.</b>	
§ 2. The analogue in the large of Theorem A .....	89
3. The analogue in the large of Theorem B .....	92
4-5. The set $\Gamma(f)$ . Preliminary theorems and lemmas .....	93
6. The sets $\Gamma(f)$ and $\Phi(f)$ under conformal mapping .....	98
7. The set $\Gamma(f)$ in relation to the inverse function .....	99
8. The set $\Gamma_P(f)$ for bounded functions .....	103
9-14. The Main Theorem in the Large .....	105
<b>Part II. Boundary Theorems in the Small.</b>	
§ 15. Preliminaries .....	120
16. The analogues in the small of Theorems B and C .....	123
17-22. The Main Theorem in the Small .....	124
23. Generalisation of Theorems B' and C' .....	135
<b>Part III.</b>	
24-25. The classification and distribution of singularities of $f(z)$ on the unit circle.	137
<b>Appendix.</b>	
26-27. Application to Jordan domains .....	141