AN OPTICAL FIBRE COMMUNICATIONS SYSTEM

R. C. HALGREN. B.Sc., Stud.I.E.Aust.,

THESIS FOR AN HONOURS DEGREE
IN ENGINEERING.

School of Electrical Engineering,
University of Sydney.

PREFACE

In recent years, a great deal of research into optical fibre communication links has occurred. It is therefore important that research in universities and other colleges of advanced education do not lag too far behind such trends. It is for this reason that the University of Sydney's School of Electrical Engineering made this thesis possible. Also, I should like to thank Dr Nicol at AWA Research Laboratory, North Ryde, N.S.W. for donating twenty metres of good quality optical fibre for this thesis topic.

The thesis has been divided into two parts. Part 1 outlines the general theory associated with such a system and Part 2 outlines the design and construction of the experimental system, the approach I took, the successes, the failures and future possibilities. Each part is sub-divided into chapters covering different aspects of an optical fibre communication system.

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