

UNIVERSITY OF OKLAHOMA  
GRADUATE COLLEGE

Joint Orthogonal Coding and Pulse Compression for Low-Power Polarimetric Radar

A THESIS  
SUBMITTED TO THE GRADUATE FACULTY  
in partial fulfillment of the requirements for the  
Degree of  
MASTER OF SCIENCE IN METEOROLOGY

By  
CHRISTOPH KOEHLER  
Norman, Oklahoma  
2011

Joint Orthogonal Coding and Pulse Compression for Low-Power Polarimetric Radar

A THESIS APPROVED FOR THE  
SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING

By

---

Dr. Robert D. Palmer, chair

---

Dr. Boonleng Cheong

---

Dr. Mark Yeary



## Dedication

This thesis is dedicated to my parents and my wonderful wife. Thank you for investing in me by sacrificing so much, and thank you Myka for your patience over the last 6 years with my techie-stuff. Yeah.

# Contents

List Of Tables	v
List Of Figures	vi
Abstract	vii
1 Introduction	1
Reference List	1

## List Of Tables

## List Of Figures

# Abstract

Orthogonal coding foo bla awesome, but even better with pulse compression, so yeah.



# Chapter 1

## Introduction

This is the introduction. CHANDRASEKAR (2008) says something.

## Bibliography

CHANDRASEKAR, V., 2008: Orthogonal channel coding for simultaneous co- and cross-polarization measurements. Technical report, Colorado State University, Fort Collins, Colorado.