

A Study of Something Appropriate to a Dissertation

by

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DEDICATION

To my wife

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ABSTRACT

This work is a study in contrasts.

CHAPTER 1

INTRODUCTION

The history of modern ferroelectrics can be traced to 1921 when Valasek discovered the effect in Rochelle salt. In the second half of the 20th century research in Ferroelectrics has flourished along with the related fields of Pyroelectrics and Piezoelectrics. As the potential uses keep growing there is no indication of slow-down in the field. The defining character of a Ferroelectric is the presence of at least two stable polarization states and the ability to switch from one to the other by the application of an appropriate electric field. This requirement places constraints on the possible crystal structures that ferroelectric material could possess. Of the 32 crystal classes 11 possess a center of symmetry. Of the remaining non-centrosymmetric classes ten have a single polar axis and are spontaneously polarized.

CHAPTER 2

HARD STUFF

Here's where you start getting technical. See [1].

REFERENCES

- [1] A. Square, *Flatland: A romance of many dimensions*, Seeley & Co., London, 1884.

ABOUT THE AUTHOR

Able Baker was born in Juliette, India.