

Contents

Chapter 1: Introduction

Chapter 2: Physics Package

Chapter 3: Frequency Generation Circuits

Chapter 4: Accuracy, Instability and Allan Deviation

Chapter 5: FE-5650A Initial Setup and Tests

Chapter 6: Serial Port and Initial Frequency Tests

Chapter 7: Modifications

Chapter 8: Errors and the Reference Frequency

Chapter 9: Calibration

Chapter 10: A Controller for the FE5650A Rubidium Frequency Standard

APPENDICES

Appendix 1: HEX Math and Calculator 2

Appendix 2: Calibrating a Low-Cost Frequency Counter

Appendix 3: Beats Math

Appendix 4: Regression and SMATH

Appendix 7: Allan Deviation Software

Appendix 8: FA-2 File Conversion Utility FA2Convert

Appendix 9: Windows FE5650A Interface

Preface

