OUTLINE INDEX

SECTION 1 1

Introduction 1

Optics 2

Speed 3

Refraction 4

Diffraction 7

Reflection 9

Interference 9

Polarization 9

Section 2 10

U-waves 10

Gravitation, U-wave Flow, and the Affect of Matter 10

U-waves in Matter 10

U-waves In Optics 12

Refraction 12

Diffraction 13

Gravitational U-wave Management Methods 16

Prism Deflecting 16

X-Ray Focusing 16

Slit Focusing 18

X-ray Crystallography 18

Crystal Deflecting 19

Focused Deflecting Considerations 22

SECTION 3 24

U-wave Deflection Caused by U-wave Slowing 24

Quantifying the U-wave Deflection in Light Diffraction 25

Using these Slit Diffraction Results for A Gravitation Deflector 29

SECTION 4 31

A Cubic Crystal Deflector 31

Earth Overall Gravitation vs. Earth Surface Light Source 32

A Practical Problem in Implementing the Cubic Crystal Deflector 37

SECTION 5 39

Objectives of Gravitic Applications 39

Gravitic Levitation and Acceleration 40

Energy 40

Gravitic Power Generation 41

Gravity Management Means for These Applications 42

General Design Considerations Affecting Gravitic Applications 42

Force and Acceleration 42

Passenger and Cargo in Gravitic Transportation Vehicles 43

Conclusion 44

Appendix A 46

U-wave Concentrations 46
The Ambient U-Wave Flow 46
The Incoming Gravitational U-Wave Flow 53
Conclusion and Ratios 55
APPENDIX B 54
The Exact Submultiple of Interatomic Spacing Issue 54
Temperature Variation 55
Thermal Vibrations and Black Body Radiation 56
The Random Distribution Solution to the Crystal Tilt 57
Precision and Errors 60
Preliminary Design Summary 60
APPENDIX C 62
Output Power Calculations 62
Design Considerations 64
Configuration 64
The Working Fluig 65
The Gravitic Deflector 66
Gravitic Power Generation Compact Cases 66
APPENDIX D 69
The Experiments In General 56
Requirements for the Cubic Crystal Deflector 56
Experiment #1 – Demonstration of Gravitation Reduction 57
Comments Bearing on the Project 57
Experiment #2 – Controlled Local Gravitation Reduction with a Cubic Crystal Deflector 58
Experiment #3 – Energy from the Gravitational Field 59