

Note: all multi-line
entries are single
spaced.

TABLE OF CONTENTS

ABSTRACT	iii
LIST OF FIGURES	viii
LIST OF TABLES	xxii
ACKNOWLEDGMENTS	xxix
double space	
CHAPTER 1 INTRODUCTION	1
1.1 Introduction	1
1.2 GPR Hardware	4
1.3 Electromagnetic Wave Propagation	9
CHAPTER 2 SENSITIVITY ANALYSES OF THE FREQUENCY DOMAIN SIGNAL PROCESSING TECHNIQUE	single space
2.1 Back Group and Previous Work	17
2.2 Signal Processing Tools	19

LIST OF FIGURES

Figure 1.1	General location of Kenai Peninsula and Cook Inlet (modified from Magoon, 1994).	single space
Figure 2.1	Time series segment of approximately 2.5 minutes for stations k201 and k202. Electric fields are shown in red.	36
Figure 3.1	Apparent resistivity and phase versus period for station k201.	49

double space

REFERENCES CITED

Brandsberg-Dahl, S. "Imaging-Inversion and Migration Velocity Analysis in the Scattering-Angle/Azimuth Domain." Ph.D. diss., Colorado School of Mines, 2001.	single space
Buckley, R. "Diffraction by a Random Phase-Changing Screen: A Numerical Experiment." <i>Journal of Atmospheric and Terrestrial Physics</i> 37 (1975):1431-46.	

Burridge, R., M.V. De Hoop, D. Miller, and C. Spencer. "Multiparameter Inversion in Anisotropic Elastic Media." *Geophysics Journal International* 134 (1998):757-77.