

# On recovering of distributed IP parameters in time domain electromagnetic data

Seogi Kang

February 5, 2016

## Contents

<b>1</b>	<b>Introduction</b>	<b>2</b>
----------	---------------------	----------

# 1 Introduction

[4, 7, 8, 1, 2, 6, 5, 3]

## References

- [1] Kenneth S. Cole and Robert H. Cole. Dispersion and absorption in dielectrics i. alternating current characteristics. *The Journal of Chemical Physics*, 9(4), 1941.
- [2] Carlos A Dias. Developments in a model to describe lowfrequency electrical polarization of rocks. *GEOPHYSICS*, 65(2):437–451, 2000.
- [3] Eldad Haber, Uri M Ascher, and Douglas W Oldenburg. Inversion of 3D electromagnetic data in frequency and time domain using an inexact all-at-once approach. *Geophysics*, 69(5):1216–1228, 2004.
- [4] D. Marchant, E. Haber, and D. W. Oldenburg. Inductive source induced polarization. *Geophysical Journal International*, 192(2):602–612, November 2012.
- [5] David Marchant, Eldad Haber, and Douglas Oldenburg. Three-dimensional modeling of ip effects in time-domain electromagnetic data. *Geophysics*, 79(6):E303–E314, 2014.
- [6] Richard S. Smith, PW Walker, BD Polzer, and G. F. West. The time-domain electromagnetic response of polarizable bodies: an approximate convolution algorithm. *Geophysical Prospecting*, 36(April):772–785, 1988.
- [7] Andrey Tarasov and Konstantin Titov. On the use of the Cole-Cole equations in spectral induced: Polarization. *Geophysical Journal International*, 195(1):352–356, 2013.
- [8] Dikun Yang, Douglas W Oldenburg, and Eldad Haber. 3-d inversion of airborne electromagnetic data parallelized and accelerated by local mesh and adaptive soundings. *Geophysical Journal International*, 196(3):1942–1507, 2014.