

# Contents

<b>1</b>	<b>Introduction</b>	1
1.1	Introduction	1
1.2	Geophysics for Landscape Analysis	2
1.3	Multiple Method Integration	3
1.4	The Focus of This Book: A Modification from Other Approaches to Integrate Methods	4
1.5	Some Initial Thoughts on Analysis of Geophysical Data	8
1.6	Example of the Method Used to Analyze Both GPR and Magnetics	9
	References	13
<b>2</b>	<b>Ground-penetrating Radar</b>	17
2.1	Introduction to Ground-penetrating Radar	17
2.2	The GPR Method	19
	References	23
<b>3</b>	<b>Magnetometry</b>	25
3.1	Basics of Magnetometry	25
3.2	Magnetometer Systems Typically Employed	32
3.3	Variables that Affect Magnetic Readings	34
3.4	Data Processing, Modeling and Displays	35
	References	38
<b>4</b>	<b>Small Roman Site in Croatia</b>	41
4.1	Background to the Site	41
4.2	Data Collection and Analysis	42
4.3	Conclusions	48
	Reference	50
<b>5</b>	<b>Roman Temple in England</b>	51
5.1	Background to the Site	51

5.2	Data Collection and Analysis . . . . .	52
5.3	Conclusions . . . . .	60
	References . . . . .	61
<b>6</b>	<b>Early Colonial Site in Connecticut . . . . .</b>	<b>63</b>
6.1	Background to the Site . . . . .	63
6.2	Data Collection and Analysis . . . . .	64
6.3	Conclusions . . . . .	73
	References . . . . .	74
<b>7</b>	<b>Medieval Site in Ireland . . . . .</b>	<b>75</b>
7.1	Background to the Site . . . . .	75
7.2	Data Collection and Analysis . . . . .	77
7.3	Conclusions . . . . .	89
	References . . . . .	90
<b>8</b>	<b>Hunter-Gatherer Site in Colorado . . . . .</b>	<b>91</b>
8.1	Background to the Site . . . . .	91
8.2	Data Collection and Analysis . . . . .	93
8.3	Conclusions . . . . .	103
	References . . . . .	105
<b>9</b>	<b>Conclusions . . . . .</b>	<b>107</b>
9.1	Interpreting GPR and Magnetometry Data Sets in Different Areas . . . . .	107

Ground-penetrating Radar and Magnetometry for  
Buried Landscape Analysis

Conyers, L.B.

2018, XII, 109 p. 68 illus., 66 illus. in color., Softcover

ISBN: 978-3-319-70889-8