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Nota di contenuto	TITLE PAGE ; COPYRIGHT PAGE ; CONTENTS ; CONTRIBUTORS ; FOREWORD ; PREFACE ; ACKNOWLEDGMENTS ; CHAPTER 1 INTRODUCTION 1.1. SOME DEFINITIONS 1.2. OVERVIEW OF CHAPTER CONTENTS ; 1.3. FUTURE DEVELOPMENTS ; REFERENCES ; PART I THEORY; CHAPTER 2 INVERSE METHODS: PROBLEM FORMULATION AND PROBABILISTIC SOLUTIONS; 2.1. INTRODUCTION 2.2. INVERSE THEORY 2.3. THE ORIGIN OF PROBABILITY; 2.4. PROBABILISTIC INVERSION; 2.5. SAMPLING A PROBABILITY DENSITY; 2.6. INVERSE THEORY IN PRACTICE: LIMITATIONS AND INTERPRETATIONS; ACKNOWLEDGMENTS ; REFERENCES ; CHAPTER 3 INFERENCE NETWORKS IN EARTH MODELS WITH MULTIPLE COMPONENTS AND DATA; 3.1. INTRODUCTION 3.2. MULTIPLE PHYSICAL OBSERVATIONS AND MODEL COMPONENTS 3.3. GRAPHS AND POSTERIOR PROBABILITY DENSITIES ; 3.4 SAMPLING IN MODEL NETWORKS

3.5. MAXIMUM POSTERIOR PROBABILITIES IN MODEL NETWORKS	
3.6. DISCUSSION	; 3.7.
CONCLUSIONS	;
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CHAPTER 4 STRUCTURAL COUPLING APPROACHES IN INTEGRATED GEOPHYSICAL IMAGING	

Sommario/riassunto

Reliable and detailed information about the Earth's subsurface is of crucial importance throughout the geosciences. Quantitative integration of all available geophysical and geological data helps to make Earth models more robust and reliable. The aim of this book is to summarize and synthesize the growing literature on combining various types of geophysical and other geoscientific data. The approaches that have been developed to date encompass joint inversion, cooperative inversion, and statistical post-inversion analysis methods, each with different benefits and assumptions. Starting with the foundations of inverse theory, this book systematically describes the mathematical and theoretical aspects of how to best integrate different geophysical datasets with geological prior understanding and other complimentary data. This foundational basis is followed by chapters that demonstrate the diverse range of applications for which integrated methods have been used to date. These range from imaging the hydrogeological properties of the near-surface to natural resource exploration and probing the composition of the lithosphere and the deep Earth. Each chapter is written by leading experts in the field, which makes this book the definitive reference on integrated imaging of the Earth.--

2. Record Nr.	UNINA9910693695503321
Titolo	Interpretive geologic cross sections for the Death Valley Regional Flow System and surrounding areas, Nevada and California // U.S. Dept. of the Interior, U.S. Geological Survey ; by Donald S. Sweetkind ... [and others] ; prepared in cooperation with the Office of Environmental Restoration and Waste Management, U.S. Department of Energy
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Altri autori (Persone)	SweetkindDonald S (Donald Steven)
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