1. Record Nr. UNINA9910452408503321

Titolo	Looking beyond? [[electronic resource]] : shifting views of transcendence in philosophy, theology, art, and politics / / edited by Wessel Stoker and W.L. van der Merwe
Pubbl/distr/stampa	Amsterdam ; ; New York, : Rodopi, 2012
ISBN	1-283-54307-9 9786613855527 94-012-0752-6
Descrizione fisica	1 online resource (513 p.)
Collana	Currents of encounter ; ; v. 42
Altri autori (Persone)	StokerW (Wessel) Van der MerweW. L
Disciplina	141.3
Soggetti	Transcendence (Philosophy) Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	pt. 1. Philosophy : historical approaches -- pt. 2. Contemporary philosophy -- pt. 3. Philosophical theology -- pt. 4. Christian theology -- pt. 5. Politics -- pt. 6. Art.
Sommario/riassunto	Religion is undergoing a transformation in current Western society. In addition to organized religions, there is a notable movement towards spirituality that is not associated with any institutions but in which experiences and notions of transcendence are still important. Transcendence can be described as God, the absolute, Mystery, the Other, the other as alterity, depending on one’s worldview. In this book, these shifts in the views of transcendence in various areas of culture such as philosophy, theology, art, and politics are explored on the basis of a fourfold heuristic model (proposed by Wessel Stoker). In conversation with this model, various authors, established scholars in their fields, explain the meaning and role, or the critique, of transcendence in the thought of contemporary thinkers, fields of discourse, or cultural domains. Looking Beyond? will stimulate further research on the theme of transcendence in contemporary culture, but can also serve as a textbook for courses in various disciplines, ranging

		from philosophy to theology, cultural studies, literature, art, and politics.

2.	Record Nr.	UNISA996466747703316
	Autore	Sabbagh Harold A.
	Titolo	Advanced electromagnetic models for materials characterization and nondestructive evaluation / / Harold A. Sabbagh [and three others]
	Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
	ISBN	3-030-67956-X
	Descrizione fisica	1 online resource (353 pages) : illustrations
	Collana	Scientific Computation
	Disciplina	620.1127
	Soggetti	Nondestructive testing Electromagnetic testing
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Intro -- Preface -- Acknowledgments -- Contents -- Part I Voxel-Based Inversion Algorithms -- 1 A Bilinear Conjugate-Gradient Inversion Algorithm -- 1.1 Optimization via Nonlinear Least-Squares -- 1.2 A Bilinear Conjugate-Gradient Inversion Algorithm Using Volume-Integrals -- 1.3 The Algorithm -- 1.4 Example: Raster Scan at Three Frequencies -- 2 Voxel-Based Inversion Via Set-Theoretic Estimation -- 2.1 The Electromagnetic Model Equations -- 2.2 Set-Theoretic Estimation -- 2.3 Statistical Analysis of the Feasible Set -- 2.4 A Layer-Stripping Algorithm -- 2.5 Some Examples of the Inversion Algorithm -- 2.6 Application to Aircraft Structures -- Part II Materials Characterization -- 3 Modeling Composite Structures -- 3.1 Background -- 3.2 Constitutive Relations for Advanced Composites -- 3.3 Example Calculations Using VIC-3D® -- 3.4 A Coupled-Circuit Model of Maxwell's Equations -- 3.5 Eddy-Current Detection of Prepreg FAWT -- 3.6 An Anisotropic Inverse Problem for Measuring FAWT -- 3.6.1 Return to an Analysis of Fig.3.10 -- 3.7 Further Results for Permittivity -- 3.8 Comments and Conclusions -- 3.9 Eigenmodes of Anisotropic Media -- 3.10 Computing a Green's Function for a Layered

Workpiece -- 3.11 An Example of the Multilayer Model -- 3.12 A Bulk Model -- 4 Application of the Set-Theoretic Algorithm to CFRP's -- 4.1 Background -- 4.2 Statistical Analysis of the Feasible Set -- 4.3 An Anisotropic Inverse Problem for Measuring FAWT -- 4.3.1 First Set-Theoretic Result -- 4.3.2 Second Set-Theoretic Result -- 4.3.3 Comment -- 4.4 Modeling Microstructure Quantification Problems -- 4.4.1 Delaminations -- 4.4.2 Transverse Ply with Microcrack -- 4.5 Layer-Stripping for Anisotropic Flaws -- 4.6 Advanced Features for Set-Theoretic Microstructure Quantification -- 4.6.1 A Heuristic Iterative Scheme to Determine a Zero-Cutoff Threshold.
4.7 Progress in Modeling Microstructure Quantification -- 4.8 Handling Rotations of Anisotropic Media -- 5 An Electromagnetic Model for Anisotropic Media: Green's Dyad for Plane-Layered Media -- 5.1 Theory -- 5.2 Applications -- 5.3 Some Inverse Problems with Random Anisotropies -- 5.4 Detectability of Flaws in Anisotropic Media: Application to Ti64 -- 6 Stochastic Inverse Problems: Models and Metrics -- 6.1 Introducing the Problem -- 6.2 NLSE: Nonlinear Least-Squares Parameter Estimation -- 6.3 Confidence Levels: Stochastic Global Optimization -- 6.4 Summary -- 7 Integration of Functionals, PCM and Stochastic IntegralEquations -- 7.1 Theoretical Background -- 7.2 Probability Densities and Numerical Procedures -- 7.3 Second-Order Random Functions -- 7.4 A One-Dimensional Random Surface -- 7.5 gPC and PCM -- 7.6 HDMR and ANOVA -- 7.7 Determining the ANOVA Anchor Point -- 7.8 Interpolation Theory Using Splines Based Upon Higher-Order Convolutions of the Unit Pulse -- 7.9 Two-Dimensional Functions -- 7.10 Probability of Detection and the Chebychev Inequality -- 7.11 Consistency of Calculations -- Appendix 1: The Numerical Model -- Appendix 2: The Fortran RANDOM_NUMBER Subroutine -- 8 A Model for Microstructure Characterization -- 8.1 Introduction -- 8.2 Stochastic Euler Space -- 8.3 The Karhunen-Loeve Model -- 8.4 Anisotropic Covariances -- 8.5 The Geometric Autocorrelation Function -- 8.6 Results for the Anisotropic Double-Exponential Model -- 9 High-Dimension Model Representation via Sparse GridTechniques -- 9.1 Introduction -- 9.2 Mathematical Structure of the Problem -- 9.3 Clenshaw-Curtis Grids -- 9.4 The TASMANIAN Sparse Grids Module -- 9.5 First TASMANIAN Results -- 9.6 Results for 4D-Level 8 -- 9.7 The Geometry of the 4D-Level 8 Chebyshev Sparse Grid -- 9.8 Searching the Sparse Grid for a Starting Point for Inversion.
9.9 A Five-Dimensional Inverse Problem -- 9.10 Noisy Data and Uncertainty Propagation -- 10 Characterization of Atherosclerotic Lesions by Inversion of Eddy-Current Impedance Data -- 10.1 The Model -- 10.2 Sample Impedance Calculations -- 10.3 The Eight-Layer Inversion Algorithm -- 10.4 Lesion 2 -- 10.5 Noninvasive Detection and Characterization of Atherosclerotic Lesions -- 10.6 Electromagnetic Modeling of Biological Tissue -- 10.6.1 The Lesions Revisited -- 10.7 Determining Coil Parameters -- 10.7.1 Application to the 21.6mm Single-Turn Loop -- 10.8 Measuring the Frequency Response of Saline -- 10.9 Determining the Constitutive Parameters of Saline -- 10.10 Comments and Discussion -- 10.10.1 Summary -- Appendix: The Levenberg-Marquardt Parameter in Least-Squares Problems -- Part III Quantum Effects -- 11 Spintronics -- 11.1 Introduction -- 11.2 Paramagnetic Spin Dynamics and the Spin Hamiltonian -- 11.2.1 Application to Fe3+:TiO2 -- 11.2.2 Ho++:CaF2 -- 11.3 Superparamagnetic Iron Oxide -- 11.4 Fe3+ and Hund's Rules -- 11.5 Crystalline Anisotropy and TiO2 -- 11.5.1 Application to a `Magnetic Lesion' -- 11.6 Static Interaction Energy of Two Magnetic Moments -- 12 Carbon-Nanotube Reinforced Polymers -- 12.1