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Titolo	Spherical Sampling // by Willi Freeden, M. Zuhair Nashed, Michael Schreiner
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ISBN	3-319-71458-9
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XV, 596 p.)
Collana	Geosystems Mathematics, , 2510-1544
Disciplina	550
Soggetti	Functions, Special Differential equations, Partial Numerical analysis Geophysics Information theory Mathematics—Study and teaching Special Functions Partial Differential Equations Numerical Analysis Geophysics/Geodesy Information and Communication, Circuits Mathematics Education
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preliminaries -- Function Systems -- Shannon Sampling Variants -- Bandlimited Sampling -- Spline Sampling -- Bandlimited Fourier Expansion Sampling -- Spacelimited Multi-Scale Approximate Identity Sampling -- Spacelimited Multi-Resolution Up-Function Sampling -- Spacelimited Multi-Scale Regularized Green Function Sampling -- Non-Spacelimited Wavelet Sampling -- Inverse Wavelet Sampling -- Conclusion -- Appendices.
Sommario/riassunto	This book presents, in a consistent and unified overview, results and developments in the field of today's spherical sampling, particularly arising in mathematical geosciences. Although the book often refers to

original contributions, the authors made them accessible to (graduate) students and scientists not only from mathematics but also from geosciences and geoengineering. Building a library of topics in spherical sampling theory it shows how advances in this theory lead to new discoveries in mathematical, geodetic, geophysical as well as other scientific branches like neuro-medicine. A must-to-read for everybody working in the area of spherical sampling.
