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Autore	Muscalu Camil
Titolo	Classical and multilinear harmonic analysis . Volume 2 / / Camil Muscalu, Wilhelm Schlag [[electronic resource]]
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Descrizione fisica	1 online resource (xvi, 324 pages) : digital, PDF file(s)
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Soggetti	Harmonic analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; Preface; Acknowledgements; 1 Leibnitz rules and the generalized Korteweg-de Vries equation; 1.1 Conserved quantities; 1.2 Dispersive estimates for the linear equation; 1.3 Dispersive estimates for the nonlinear equation; 1.4 Wave packets and phase-space portraits; 1.5 The phase-space portraits of e2ix2 and e2ix3; 1.6 Asymptotics for the Airy function; Notes; Problems; 2 Classical paraproducts; 2.1 Paraproducts; 2.2 Discretized paraproducts; 2.3 Discretized Littlewood-Paley square-function operator; 2.4 Dualization of quasi-norms; 2.5 Two particular cases of Theorem 2.3 3.7 Proof of Theorem 3.1 part 2; 3.8 Multiparameter paraproducts; 3.9 Proof of Theorem 3.1; a simplification; 3.10 Proof of the generic decomposition; Notes; Problems; 4 Calder on commutators and the Cauchy integral; 4.1 History; 4.2 The first Calder on commutator; 4.3 Generalizations; 4.4 The Cauchy integral on Lipschitz curves; 4.5 Generalizations; Notes; Problems; 5 Iterated Fourier series and physical

reality; 5.1 Iterated Fourier series; 5.2 Physical reality; 5.3 Generic Lp AKNS systems for 1p < 2; 5.4 Generic L2 AKNS systems; Notes; Problems; 6 The bilinear Hilbert transform
6.1 Discretization6.2 The particular scale-1 case of Theorem 6.5; 6.3 Trees, L2 sizes, and L2 energies; 6.4 Proof of Theorem 6.5; 6.5 Bessel-type inequalities; 6.6 Stopping-time decompositions; 6.7 Generic estimate of the trilinear BHT form; 6.8 The 1/2 < r < 2/3 counterexample; 6.9 The bilinear Hilbert transform on polydisks; Notes; Problems; 7 Almost everywhere convergence of Fourier series; 7.1 Reduction to the continuous case; 7.2 Discrete models; 7.3 Proof of Theorem 7.2 in the scale-1 case; 7.4 Estimating a single tree; 7.5 Additional sizes and energies; 7.6 Proof of Theorem 7.2
7.7 Estimates for Carleson energies7.8 Stopping-time decompositions; 7.9 Generic estimate of the bilinear Carleson form; 7.10 Fefferman's counterexample; Notes; Problems; 8 Flag paraproducts; 8.1 Generic flag paraproducts; 8.2 Mollifying a product of two paraproducts; 8.3 Flag paraproducts and quadratic NLS; 8.4 Flag paraproducts and U-statistics; 8.5 Discrete operators and interpolation; 8.6 Reduction to the model operators; 8.7 Rewriting the 4-linear forms; 8.8 The new size and energy estimates; 8.9 Estimates for T1 and T1,l0 near A4; 8.10 Estimates for T1*3 and T*31,l0 near A31 and A32
8.11 Upper bounds for flag sizes

Sommario/riassunto

This two-volume text in harmonic analysis introduces a wealth of analytical results and techniques. It is largely self-contained and useful to graduates and researchers in pure and applied analysis. Numerous exercises and problems make the text suitable for self-study and the classroom alike. The first volume starts with classical one-dimensional topics: Fourier series; harmonic functions; Hilbert transform. Then the higher-dimensional Calderon-Zygmund and Littlewood-Paley theories are developed. Probabilistic methods and their applications are discussed, as are applications of harmonic analysis to partial differential equations. The volume concludes with an introduction to the Weyl calculus. The second volume goes beyond the classical to the highly contemporary and focuses on multilinear aspects of harmonic analysis: the bilinear Hilbert transform; Coifman-Meyer theory; Carleson's resolution of the Lusin conjecture; Calderon's commutators and the Cauchy integral on Lipschitz curves. The material in this volume has not previously appeared together in book form.

2.

Record Nr.	UNINA9910785647503321
Autore	Christensen Rob
Titolo	The Paradox of Tar Heel Politics [[electronic resource]] : The Personalities, Elections, and Events That Shaped Modern North Carolina
Pubbl/distr/stampa	Chapel Hill, : The University of North Carolina Press, 2010
ISBN	1-4696-0628-3 0-8078-9963-1
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (372 p.)
Disciplina	975.6043
Soggetti	North Carolina -- Politics and government -- 1865-1950 North Carolina -- Politics and government -- 1951- Political culture -- North Carolina
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Note generali	Description based upon print version of record.
Nota di contenuto	Contents; Acknowledgments; Introduction; Prologue; CHAPTER 1. The Simmons Machine; CHAPTER 2. The Shelby Dynasty; CHAPTER 3. Branchhead Boys; CHAPTER 4. The Last of the Conservative Democrats; CHAPTER 5. Dixie Dynamo; CHAPTER 6. Jessecrats; CHAPTER 7. Jim Hunt and the Democratic Revival; CHAPTER 8. Phoenix Rising; CHAPTER 9. A New Century; Epilogue; Appendix; Notes; Index
Sommario/riassunto	How can a state be represented by Jesse Helms and John Edwards at the same time? Journalist Rob Christensen answers that question and navigates a century of political history in North Carolina, one of the most politically vibrant and competitive southern states, where neither conservatives nor liberals, Democrats nor Republicans, have been able to rest easy. It is this climate of competition and challenge, Christensen argues, that enabled North Carolina to rise from poverty in the nineteenth century to become a leader in research, education, and banking in the twentieth. In this new pa