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Titolo	Clifford Algebras and Lie Theory // by Eckhard Meinrenken
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	3-642-36216-8
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (321 p.)
Collana	Ergebnisse der Mathematik und ihrer Grenzgebiete. ; ; 3. Folge, Volume 58
Disciplina	512.57
Soggetti	Topological groups Lie groups Associative rings Rings (Algebra) Mathematical physics Differential geometry Physics Topological Groups, Lie Groups Associative Rings and Algebras Mathematical Applications in the Physical Sciences Differential Geometry Mathematical Methods in Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Originally published: 2013.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- Conventions -- List of Symbols -- 1 Symmetric bilinear forms -- 2 Clifford algebras -- 3 The spin representation -- 4 Covariant and contravariant spinors -- 5 Enveloping algebras -- 6 Weil algebras -- 7 Quantum Weil algebras -- 8 Applications to reductive Lie algebras -- 9 $D(g; k)$ as a geometric Dirac operator -- 10 The Hopf-Koszul-Samelson Theorem -- 11 The Clifford algebra of a reductive Lie algebra -- A Graded and filtered super spaces -- B Reductive Lie algebras -- C Background on Lie groups -- References -- Index.
Sommario/riassunto	This monograph provides an introduction to the theory of Clifford algebras, with an emphasis on its connections with the theory of Lie

groups and Lie algebras. The book starts with a detailed presentation of the main results on symmetric bilinear forms and Clifford algebras. It develops the spin groups and the spin representation, culminating in Cartan's famous triality automorphism for the group $\text{Spin}(8)$. The discussion of enveloping algebras includes a presentation of Petracci's proof of the Poincaré–Birkhoff–Witt theorem. This is followed by discussions of Weil algebras, Chern–Weil theory, the quantum Weil algebra, and the cubic Dirac operator. The applications to Lie theory include Duflo's theorem for the case of quadratic Lie algebras, multiplets of representations, and Dirac induction. The last part of the book is an account of Kostant's structure theory of the Clifford algebra over a semisimple Lie algebra. It describes his “Clifford algebra analogue” of the Hopf–Koszul–Samelson theorem, and explains his fascinating conjecture relating the Harish-Chandra projection for Clifford algebras to the principal $\text{sl}(2)$ subalgebra. Aside from these beautiful applications, the book will serve as a convenient and up-to-date reference for background material from Clifford theory, relevant for students and researchers in mathematics and physics.

2. Record Nr.

Titolo

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Education, Work and Social Change in Britain's Former Coalfield Communities : The Ghost of Coal / / edited by Robin Simmons, Kat Simpson

Pubbl/distr/stampa

Cham : , : Springer International Publishing : , : Imprint : Palgrave Macmillan, , 2022

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Edizione

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Descrizione fisica

1 online resource (278 pages)

Disciplina

929.374

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Soggetti

Educational sociology
Schools
Education and state
Industrial sociology
Sociology of Education
School and Schooling
Educational Policy and Politics
Sociology of Work

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>Introduction In the Shadow of Coal; Robin Simmons and Katherine Simpson -- Chapter 1 Contextualising the Coalfields: Mapping the Socio-Economic and Cultural Loss of the Coal Industry; Tim Strangleman -- Chapter 2 A Conflictual Legacy: Being a Coal Miner's Daughter -- Chapter 3 Education, Ghosts and Deindustrialisation: Attuning to Legacies of Resistance and Collectivity in the Hidden Curriculum -- Chapter 4 Growing up in the interregnum: accounts from the South Yorkshire coalfield -- Chapter 5 Working Down the Pit: Historical and Cultural Perspectives on Coal Mining in Britain and the Implications for Contemporary Society and Politics -- Chapter 6 Are we expecting too much? Aspirations and Expectations of Girls Living in an Ex-Mining Community -- Chapter 7 School Legacies in the Former Coalfields: Education, Deindustrialisation and Collective Remembering -- Chapter 8 "A brewing, a world stirring": A 'Ghost Lab' Approach to the Social Haunting of the UK Coalfields; Geoff Bright.-9 Conclusion Reimagining Education and Work in the Former Coalfields.</p>
Sommario/riassunto	<p>This edited book presents a range of chapters written by new and established authors, drawing on a range of different perspectives and traditions to critically analyse education, work and social change in the former coalfields. Historically, coal was one of Britain's major industries, employing over a million men at its peak. But mining was more than an occupation - it was a way of life for those living and working in coalfield communities. Work, leisure, family relations and other dimensions of social life were centred upon the coal industry and its related institutions such as trade unions, working-men's clubs and welfare institutes. These communities have, however, undergone significant social and economic change over time, not least in terms of the pain and suffering associated with the Great Strike of 1984–85, the successive waves of pit closures which took place thereafter and the eventual demise of the coal industry. The book will be of interest to academics drawing on sociology, social policy, history, geography and other subject disciplines. Robin Simmons is Professor of Education at the University of Huddersfield, UK. His research interests lie in the sociology of education, education policy, and the history of education. Robin has led research funded by leading bodies including the Raymond Williams Foundation, Gatsby Charitable Foundation, and the Leverhulme Trust. He has written extensively on social class, particularly in relation to young people's experiences of participation and non-participation in education, employment, and work-based learning. Robin is co-editor of <i>Education and Working-Class Youth: Reshaping the Politics of Inclusion</i> published by Palgrave Macmillan in 2018. Kat Simpson is Senior Lecturer in Education and Community Studies at the University of Huddersfield, UK. Her research interests lie in education and social class, especially pupils' and teachers' experiences of schooling in former coalmining communities. She has written extensively on different aspects of deindustrialisation and social haunting. Methodologically, Kat is interested in Marxist ethnography and critical policy analysis. Her book <i>Social Haunting, Education and the Working Class: Reimagining Schooling in a Former Mining Community</i> was published in 2021.</p>

