

1. Record Nr.	UNINA9910151937803321
Autore	Stroppel Markus
Titolo	Locally Compact Groups [[electronic resource] /] / Markus Stroppel
Pubbl/distr/stampa	Zuerich, Switzerland, : European Mathematical Society Publishing House, 2006
ISBN	3-03719-516-9
Descrizione fisica	1 online resource (312 pages)
Collana	EMS Textbooks in Mathematics (ETB)
Classificazione	22-xx12-xx20-xx43-xx
Soggetti	Groups & group theory Topological groups, Lie groups Field theory and polynomials Group theory and generalizations Abstract harmonic analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Locally compact groups play an important role in many areas of mathematics as well as in physics. The class of locally compact groups admits a strong structure theory, which allows to reduce many problems to groups constructed in various ways from the additive group of real numbers, the classical linear groups and from finite groups. The book gives a systematic and detailed introduction to the highlights of that theory. In the beginning, a review of fundamental tools from topology and the elementary theory of topological groups and transformation groups is presented. Completions, Haar integral, applications to linear representations culminating in the Peter-Weyl Theorem are treated. Pontryagin duality for locally compact Abelian groups forms a central topic of the book. Applications are given, including results about the structure of locally compact Abelian groups, and a structure theory for locally compact rings leading to the classification of locally compact fields. Topological semigroups are discussed in a separate chapter, with special attention to their relations to groups. The last chapter reviews results related to Hilbert's Fifth Problem, with the focus on structural results for non-Abelian

connected locally compact groups that can be derived using approximation by Lie groups. The book is self-contained and is addressed to advanced undergraduate or graduate students in mathematics or physics. It can be used for one-semester courses on topological groups, on locally compact Abelian groups, or on topological algebra. Suggestions on course design are given in the preface. Each chapter is accompanied by a set of exercises that have been tested in classes.

2. Record Nr.	UNINA9910812485603321
Autore	Cilliers Paul <1956-2011, >
Titolo	Critical complexity : collected essays // Paul Cilliers ; edited by Rika Preiser
Pubbl/distr/stampa	Berlin, Germany ; ; Boston, [Massachusetts] : , : De Gruyter, , 2016 ©2016
ISBN	1-5015-0259-X 1-5015-0261-1
Descrizione fisica	1 online resource (302 p.)
Collana	Categories, , 2198-1868 ; ; Volume 6
Disciplina	003/.7
Soggetti	Complexity (Philosophy)
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 at the end of each chapters and index.
Nota di contenuto	Frontmatter -- Table of Contents -- Acknowledgements -- Foreword -- Introduction -- The brain, the mental apparatus and the text -- Rules and relations -- Rules and complex systems -- What can we learn from a theory of complexity? -- Knowledge, complexity and understanding -- Boundaries, hierarchies and networks in complex systems -- Why we cannot know complex things completely -- Knowledge, limits and boundaries -- Postmodern knowledge and complexity (or why anything does not go) -- Complexity, deconstruction and relativism -- On Derrida and apartheid -- Justice, law and philosophy -- Complexity, ethics and justice -- Difference, identity and complexity -- Complexity and philosophy --

Sommario/riassunto

This book is a collection of all the single authored essays by Paul Cilliers, published between 1990-2011. Being one of few authors who approached the study of complexity from a philosophical perspective, the main themes in these papers explore:- Qualitative characterization of complexity and the normative implications of studying complex adaptive systems, - the philosophical and conceptual similarity to post-structural approaches- how any engagement with complexity leads to a critical engagement with how we do science and design interventions- critical and normative implications for how to engage with complex socio-political concerns in the world. What makes this book unique is that it consolidates a body of work that is distributed over a wide range of academic journals. Although his book "Complexity and Postmodernism" (Routledge, 1998) remains a cornerstone in the field of complexity studies, Cilliers' journal essays really explore the application of the theoretical concepts in more depth. His groundbreaking ideas conceptualized in these essays have served as a continual source of novelty and inspiration in the process of applying complexity thinking to other fields of study.
