

1. Record Nr.	UNINA9910785821603321
Titolo	Semigroups in algebra, geometry, and analysis [[electronic resource]] / editors, Karl H. Hofmann, Jimmie D. Lawson, Ernest B. Vinberg
Pubbl/distr/stampa	New York, : Walter de Gruyter, 1995
ISBN	3-11-088558-1
Edizione	[Reprint 2011]
Descrizione fisica	xii, 370 p. : ill
Collana	De Gruyter expositions in mathematics, , 0938-6572 ; ; 20
Classificazione	SK 260
Altri autori (Persone)	HofmannKarl Heinrich LawsonJimmie D VinbergE. B (Ernest Borisovich)
Disciplina	512/.55
Soggetti	Lie groups Semigroups
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front matter -- Preface -- Acknowledgements -- Table of Contents -- 1. Lie semigroups, ordered symmetric spaces and causality -- Causal semisimple symmetric spaces, the geometry and harmonic analysis / Faraut, Jacques / Ólafsson, Gestur -- The halfspace method for causal structures on homogeneous manifolds / Hilgert, Joachim -- Semigroups in foundations of geometry and axiomatic theory of space-time / Guts, Alexander K. -- On mathematical foundations and physical applications of chronometry / Levichev, Alexander V. -- 2. Invariant cones, Ol'shanski-semigroups, exponential semigroups -- On the structure of Lie algebras admitting an invariant cone / Gichev, Victor M. -- Semigroups of Ol'shanski type / Lawson, Jimmie D. -- Lie groups and exponential Lie subsemigroups / Hofmann, Karl H. / Ruppert, Wolfgang A.F. -- 3. Convexity theorems, representation theory -- Symplectic convexity theorems, Lie semigroups, and unitary representations / Hilgert, Joachim / Neeb, Karl-Hermann -- Holomorphic representations of Ol'shanski semigroups / Neeb, Karl-Hermann -- 4. Semisimple Lie groups and semigroups -- Control sets and semigroups in semisimple Lie groups / Martin, Luiz B. San -- The asymptotic semigroup of a semisimple Lie group / Vinberg, Ernest B. -- 5. Applications: Control -- Applications of the maximum principle to problems in Lie semigroups / Mittenhuber, Dirk -- Totally extremal

manifolds for optimal control problems / Zelikin, Mikhail I. -- 6.
Applications: Probability -- Lie semigroups and probability: a survey /
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