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Nota di contenuto	Front matter -- Part I. Lie theory and algebraic geometry -- Lie groups and semigroups / Hofmann, K. H. -- Applications of Lie semigroups in analysis / Hilgert, J. -- Embedding semigroups into Lie groups / Lawson, J. D. -- Algebraic varieties and semigroups / Renner, L. E. -- Part II. The compact case -- Compact semilattices, partial orders and topology / Mislove, M. W. -- Compact semitopological semigroups / Ruppert, W. A. F. -- Semigroupes affines semitopologiques compacts / Troadec, J.-P. -- Compact semigroups with one-sided continuity / Pym, J. S. -- Part III. Functional analysis on semigroups -- Measure algebras on semigroups / Baker, J. W. -- Positive definite and related functions on semigroups / Berg, C. -- Convolution semigroups and potential kernels on a commutative hypergroup / Heyer, H. -- Amenability of semigroups / Lau, A. T.-M. -- Part IV. Applications: Systems theory, number theory, probability, topology -- Applications of semigroups to geometric control theory / Kupka, I. -- The semigroup and its applications to number theory / Hindman, N. -- Probability measures on semigroups of nonnegative matrices / Darling, R. W. R. / Mukherjea, A. -- Some trends and directions in the investigation of congruences on $S(X)$ / Magill, K. D. Jr -- List of contributors -- Back matter

