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""Chapter 5. More Examples""

""1. Examples Connected with the Special Linear Group""""2. Some Results on Injective Images of Lie Subsemigroups""; ""3. Examples Connected with the Motion Algebra""; ""4. Examples Connected with the Oscillator Group""; ""5. Examples Connected with Compact Lie Algebras""; ""Chapter 6. Test Algebras and Groups""; ""1. Extensions of the Motion Algebra and of the Oscillator Algebra""; ""2. Test Objects""; ""3. Locally Direct Products of Lie Groups""; ""4. The Proof of the Testing Theorem""; ""Chapter 7. Groups Supporting Reduced Weakly Exponential Semigroups""

""1. 'Occam's Razor' and Reduced Weakly Exponential Subsemigroups""""2. The Spectrum of  $\text{ad } w$  is Contained in  $\mathbb{R} \cup i\mathbb{R}$ ""; ""3. Root Spaces with Respect to Real-Valued Roots""; ""4. Weakly Exponential Subsemigroups and Eggert Algebras""; ""Chapter 8. Roots and Root Spaces""; ""1. Roots and Root Spaces""; ""2. The Answer""; ""Chapter 9. Appendix: The Hyperspace of a Locally Compact Space""; ""1. Continuous Lattices, Lawson Topology, and Hyperspaces""; ""2. Continuous Functions""; ""3. The Use of Nets""; ""4. Applications to Topological Algebras""; ""References""; ""Index""; ""A""; ""B""; ""C""; ""D""; ""E""; ""F""; ""G""; ""H""; ""I""; ""L""; ""M""; ""N""; ""O""; ""P""; ""R""; ""S""; ""T""; ""U""; ""V""; ""W""; ""Z""

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