

CONTENTS

Foreword	vii–viii
Structure Theory of Semisimple Lie Groups	1–27
By A. W. KNAPP	
Characters of Representations and Paths in $\mathfrak{H}_{\mathbb{R}}^*$	29–49
By PETER LITTELMANN	
Irreducible Representations of $SL(2, \mathbb{R})$	51–59
By ROBERT W. DONLEY, JR.	
General Representation Theory of Real Reductive Lie Groups	61–72
By M. WELLEDA BALDONI	
Infinitesimal Character and Distribution Character of Representations of Reductive Lie Groups	73–81
By PATRICK DELORME	
Discrete Series	83–113
By WILFRIED SCHMID and VERNON BOLTON	
The Borel-Weil Theorem for $U(n)$	115–121
By ROBERT W. DONLEY, JR.	
Induced Representations and the Langlands Classification	123–155
By E. P. VAN DEN BAN	
Representations of $GL(n)$ over the Real Field	157–166
By C. MØGLIN	
Orbital Integrals, Symmetric Fourier Analysis, and Eigenspace Representations	167–189
By SIGURDUR HELGASON	
Harmonic Analysis on Semisimple Symmetric Spaces: A Survey of Some General Results	191–217
By E. P. VAN DEN BAN, M. FLENSTED-JENSEN, and H. SCHLICHTKRULL	
Cohomology and Group Representations	219–243
By DAVID A. VOGAN, JR.	
Introduction to the Langlands Program	245–302
By A. W. KNAPP	
Representations of $GL(n, \mathbb{F})$ in the Nonarchimedean Case	303–319
By C. MØGLIN	

Principal L -functions for $GL(n)$	321–329
By HERVÉ JACQUET	
Functoriality and the Artin Conjecture	331–353
By JONATHAN D. ROGAWSKI	
Theoretical Aspects of the Trace Formula for $GL(2)$	355–405
By A. W. KNAPP	
Note on the Analytic Continuation of Eisenstein Series:	
An Appendix to the Previous Paper	407–412
By HERVÉ JACQUET	
Applications of the Trace Formula	413–431
By A. W. KNAPP and J. D. ROGAWSKI	
Stability and Endoscopy: Informal Motivation	433–442
By JAMES ARTHUR	
Automorphic Spectrum of Symmetric Spaces	443–455
By HERVÉ JACQUET	
Where Stands Functoriality Today?	457–471
By ROBERT P. LANGLANDS	
Index	473–479