

# Contents

<b>On the space-time monopole equation</b>	
Bo Dai and Chuu-Lian Terng .....	1
<b>The Ehrhart function for symbols</b>	
Victor W. Guillemin, Shlomo Sternberg, and Jonathan Weitsman	31
<b>Recent results on the moduli space of Riemann surfaces</b>	
Kefeng Liu.....	43
<b>Applications of minimal surfaces to the topology of three-manifolds</b>	
William H. Meeks, III.....	95
<b>An integral equation for spacetime curvature in general relativity</b>	
Vincent Moncrief .....	109
<b>Topological strings and their physical applications</b>	
Andrew Neitzke and Cumrun Vafa .....	147
<b>Notes on GIT and symplectic reduction for bundles and varieties</b>	
R.P. Thomas .....	221
<b>Perspectives on geometric analysis</b>	
Shing-Tung Yau .....	275
<b>Distributions in algebraic dynamics</b>	
Shou-Wu Zhang .....	381