

CONTENTS

VOLUME I

	Page
Inaugural Address of the Chief Guest	(i)
On the Role of Fibre Bundle Structures in the Formulation of Gravitational Theories	
-W. R. Davis, R. O. Fulp and L. K. Norris	1
Static Plane Symmetric Scalar Field in Rosen's Bimetric Theory of Gravitation	29
-T. M. Karade and Y. S. Dhoble	
An Epistemological Approach to Three Dimensional Space and Four Dimensional Space-Time	35
-K. Kondo	
Statistical Mechanics of an Ideal Gaseous Assembly in Motion	
-T. M. Karade and K. G. Pangarkar	47
Explaining the ' Large Numbers ' via a Unified (Classical) Theory of Strong and Gravitational Interactions	53
-E. Recami	
Gravitational Waves : Its Amplification in an Isotropic Background Universe	57
-S. N. Pandey	
Torsion and Strong Gravity in Einstein Theory	63
-V. de Sabbata	
Gravitational Collapse	81
-B. K. Datta	
Towards a Unified Theory of Weak Electromagnetic and Strong Interactions	91
-T. Das	
Local Extensions and the Existence of Singularities in General Relativity	107
-J .K. Beem and P. E. Ehrlich	
How Tachyons Would Look Like	
-G. D. Maccarrone and E. Recami	123
An Unifying Alternative Interpretation of Special Relativity, General Relativity and Quantum Theories	143
-P. Nuthakki	
On the Theory of Gravitational Field in Finsler Spaces	155
-S. Ikeda	
Integrability Conditions in Axially symmetric Static Space-Times	
-M. Nagaraj and R. V. Prabhakara	165
Killing Vectors and Mechanical Integrals in Bimetric Theories of Gravitation	171
-M. Israelit	
Invariance of Maxwell's Equations under Superluminal Lorentz Transformations	181
-B. S. Rajput	

On Other Gravity Possibilities of Gravitation	-K. L. Narayana	201
Hypersurfaces of Constant Mean Curvature	-D. R. Brill	213
The Operation of Relativity in Einstein's Universe	-S. J. Prokhovnik	227
Why not the $R^4 \rightarrow R^6 \rightarrow R^6 \rightarrow R^4$ speed of Light Preserving Transformations ?	-P. T. Pappas	235
General Lorentz Covariant Velocity Dependent Interactions of Relativistic Particles	-Z. Horak	251
A New Generalization of Einstein's Gravitation Theory	-C. Mociutchi	255
On Some Plane Symmetric Solutions in General Relativity	-J. Horsky	269
A New Relativistic Theory of Gravitation	-J. W. Moffat	277
A Thermodynamic Analogue in Reissner-Nordstrom Blackhole	-N. Chaubey	281
On the Nijenhuis Tensor Field For A Singular Electromagnetic Field in Relativity	-L. N. Katkar and L. Radhakrishna	285
Static Spherically Symmetric Solution of Einstein Field Equations with A Massive Scalar Field	-M. Bhattacharyya and B. K. Datta	295
On the Origin of Universe	-S. C. Tiwari	303

