

Contents

1	Newton's Laws	1
2	Symmetries and Invariance	13
3	The Michelson–Morley Experiment	21
4	Einstein's 1905 Derivation	28
5	Spacetime Structure	38
6	General Covariance	50
7	Dynamical and Geometrical Approaches	59
8	The Conventionality of Simultaneity	67
9	Frame-Dependent Effects	77
10	The Twin Paradox	84
	References	95