

<<广义相对论>>

图书基本信息

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内容概要

This book is built up from a course of lectures given at the Physics Department of Florida State University and has the aim of presenting the indispensable material in a direct and concise form. It does not require previous knowledge beyond the basic ideas of special relativity and the handling of differentiations of field functions. It will enable the student to pass through the main obstacles of understanding general relativity with the minimum expenditure of time and trouble and to become qualified to continue more deeply into any specialized aspects of the subject that interest him.

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书籍目录

1. special relativity, 2. oblique axes, 3. curvilinear coordinates, 4. nontensors, 5. curved space, 6. parallel displacement, 7. christoffel symbols, 8. geodesics, 9. the stationary property of geodesics, 10. covariant differentiation, 11. the curvature tensor, 12. the condition for flat space, 13. the bianci relations, 14. the ricci tensor, 15. einstein's law of gravitation, 16. the newtonian approximation, 17. the gravitational red shift, 18. the schwarzschild solution, 19. black holes, 22. harmonic coordinates, 23. the electromagnetic field, 24. modification of the einstein equations by the presence of matter, 25. the material energy tensor, 26. the gravitational action principle, 27. the action for a continuous distribution of matter, 28. the action for the electromagnetic field, 29. the action for charged matter, 30. the comprehensive action principle, 31. the pseudo-energy tensor of the gravitational field, 32. explicit expression for the pseudo-tensor, 33. gravitational waves, 34. the polarization of gravitational waves, 35. the cosmological term, index,

章节摘录

版权页：插图：The conditions (a) and (b) , which are needed for conservation of total energy and momentum, do not often apply in practical cases. They would apply if space were static outside a definite tubular region in four dimensions. This could be so if we had some masses which start to move at a certain time, so that the motion creates a disturbance which travels outward with the velocity of light. For the usual planetary system the motion will have been going on since the infinite past and the conditions do not apply. A special treatment is needed to discuss the energy of the gravitational waves, and this will be given in Section 33.

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