

# SOLUTIONS MANUAL

## GRAVITY

AN INTRODUCTION TO EINSTEIN'S  
GENERAL RELATIVITY



James B. Hartle

WILEY

# Gravity Hartle Solutions Manual

**Puja Mehta**



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ideas story of Stephen Hawking in twelve connected chapters. It opens with his wartime birth in Oxford, follows his playful childhood, curiosity, and tracks his leap from average student to rising star at Oxford and Cambridge. It shows how just as his body began to fail, his intellect soared into the deepest questions of physics. Readers watch him propose that black holes are not truly black but emit faint heat (Hawking radiation) and see how that single insight stitched quantum theory to general relativity. Middle chapters explore the public Hawking, the best-selling author who turned cosmology into a household topic, the media figure whose digital voice became a beacon of clarity and the symbol of resilience who warned about climate change and artificial intelligence. Yet the narrative never forgets the private man. It describes his marriage to Jane, the birth of three children, the weight of round-the-clock care, the strains that led to divorce, and the complex second marriage to Elaine. It

shows how friendships bets and rivalries sharpened his science and how teams of nurses and engineers kept the conversation alive when muscles went silent The final chapters measure his legacy telescopes that test his area theorem AI researchers who cite his cautions disabled students who use speech devices modeled on his and philosophers who still wrestle with the information paradox he posed The book ends on 14 March 2018 Pi Day and Einstein s birthday when Hawking died returning metaphorically to the stars he loved Through clear language and human detail the book invites readers of any background to understand not only what Hawking discovered but why those discoveries matter to everyone who has ever looked up at the night sky and wondered

**Gravitation** Charles W. Misner,Kip S. Thorne,John Archibald Wheeler,2017-10-24 Spacetime physics Physics in flat spacetime The mathematics of curved spacetime Einstein s geometric theory of gravity Relativistic stars The universe Gravitational collapse and black holes Gravitational waves Experimental tests of general relativity Frontiers

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