

**CLIFFORD M. WILL  
PUBLICATIONS**

**A. RESEARCH ARTICLES**

1. Theoretical Frameworks for Testing Relativistic Gravity. I. Foundations  
Kip S. Thorne and Clifford M. Will  
THE ASTROPHYSICAL JOURNAL **163**, 595 (1971)
2. Theoretical Frameworks for Testing Relativistic Gravity. II. Parametrized Post-Newtonian Hydrodynamics and The Nordtvedt Effect  
Clifford M. Will  
THE ASTROPHYSICAL JOURNAL **163**, 611 (1971)
3. Relativistic Gravity in the Solar System. I. Effect of an Anisotropic Gravitational Mass on the Earth-Moon Distance  
Clifford M. Will  
THE ASTROPHYSICAL JOURNAL **165**, 409 (1971)
4. Theoretical Frameworks for Testing Relativistic Gravity. III. Conservation Laws, Lorentz Invariance, and Values of the PPN Parameters  
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5. Relativistic Gravity in the Solar System. II. Anisotropy in the Newtonian Gravitational Constant  
Clifford M. Will  
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6. Conservation Laws and Preferred Frames in Relativistic Gravity. I. Preferred-Frame Theories and an Extended PPN Formalism  
Clifford M. Will and Kenneth Nordtvedt, Jr.  
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7. Conservation Laws and Preferred Frames in Relativistic Gravity. II. Experimental Evidence to Rule Out Preferred-Frame Theories of Gravity  
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9. Relativistic Gravity in the Solar System. III. Experimental Disproof of a Class of Linear Theories of Gravitation  
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THE ASTROPHYSICAL JOURNAL **190**, 403 (1974)
11. Perturbation of a Slowly Rotating Black Hole by a Stationary Axisymmetric Ring of Matter. I. Equilibrium Configurations  
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12. Gravitational Redshift Measurements as Tests of Non-Metric Theories of Gravity  
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13. Perturbation of a Slowly Rotating Black Hole by a Stationary Axisymmetric Ring of Matter. II. Penrose Processes, Circular Orbits and Differential Mass Formulae  
Clifford M. Will  
THE ASTROPHYSICAL JOURNAL **196**, 41 (1975)
14. Periastron Shifts in the Binary System PSR 1913+16: Theoretical Interpretation  
Clifford M. Will  
THE ASTROPHYSICAL JOURNAL (LETTERS) **196**, L3 (1975)
15. Active Mass in Relativistic Gravity: Theoretical Interpretation of the Kreuzer Experiment  
Clifford M. Will  
THE ASTROPHYSICAL JOURNAL **204**, 224 (1976)
16. A Test of Post-Newtonian Conservation Laws in the Binary System PSR 1913+16  
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17. Theoretical Frameworks for Testing Relativistic Gravity. V. Post-Newtonian Limit of Rosen's Theory  
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18. Post-Newtonian Gravitational Radiation from Orbiting Point Masses  
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19. Weak Interactions and Eötvös Experiments  
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20. Gravitational Radiation from Binary Systems in Alternative Metric Theories of Gravitation: Dipole Radiation and the Binary Pulsar

- Clifford M. Will  
THE ASTROPHYSICAL JOURNAL **214**, 826 (1977)
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  23. Post-Newtonian Gravitational Bremsstrahlung  
Michael Turner and Clifford M. Will  
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  24. Tunable 'Free-Mass' Gravitational-Wave Detector  
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  25. Relativistic Kepler Problem. I. Behavior in the Distant Past of Orbits with Gravitational Radiation Damping  
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  26. Relativistic Kepler Problem. II. Asymptotic Behavior of the Fields in the Infinite Past  
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  30. Axially Symmetric Gravitational Two-Body Problem of Cooperstock, Lim and Hobill  
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35. Classification of Gravitational Waves in a Nonsymmetric Gravitational Theory  
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36. A New Class of Ideal Clocks  
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39. Effect of Dynamical Friction on the Motion of Cosmic Strings  
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41. Henry Cavendish, Johann von Soldner and the Deflection of Light  
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42. Tunneling Near the Peaks of Potential Barriers: Consequences of Higher-Order  
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44. Violation of the Weak Equivalence Principle in Theories of Gravity with a Non-symmetric Metric  
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45. Detection of the Gravitomagnetic Field Using an Orbiting Superconducting Gravity Gradiometer. I. Theoretical Principles  
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46. Gravitational Radiation, Close Binary Systems, and the Brans-Dicke Theory of Gravity  
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47. High-Overtone Normal Modes of Schwarzschild Black Holes  
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48. Test of the Isotropy of the One-Way Speed of Light using Hydrogen Maser Frequency Standards  
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49. Coalescing Binary Systems of Compact Objects to (Post)<sup>5/2</sup>-Newtonian Order: Late-Time Evolution and Gravitational Radiation Emission  
Craig W. Lincoln and Clifford M. Will  
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51. Clock Synchronization and Isotropy of the One-Way Speed of Light  
Clifford M. Will  
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52. Massive Scalar Quasi-Normal Modes of Schwarzschild and Kerr Black Holes  
Liliana E. Simone and Clifford M. Will  
CLASSICAL AND QUANTUM GRAVITY **9**, 963 (1992)
53. Is Momentum Conserved? A Test in the Binary System PSR 1913+16  
Clifford M. Will  
THE ASTROPHYSICAL JOURNAL (LETTERS) **393**, L59 (1992)

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55. Post-Newtonian Gravitational Radiation Reaction for Two-Body Systems  
Bala R. Iyer and Clifford M. Will  
PHYSICAL REVIEW LETTERS **70**, 113 (1993)
56. Spin Effects in the Inspiral of Coalescing Compact Binaries  
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III. The Transition from Inspiral to Plunge  
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58. Testing Scalar-Tensor Gravity with Gravitational-Wave Observations of Inspiralling Compact Binaries  
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59. High-Frequency Oscillations of Newton's Constant Induced by Inflation  
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Liliana E. Simone, Eric Poisson and Clifford M. Will  
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63. Post-Newtonian Gravitational Radiation Reaction for Two-Body Systems: Non-Spinning Bodies  
Bala R. Iyer and Clifford M. Will  
THE PHYSICAL REVIEW D **52**, 6882 (1995)
64. Gravitational Waveforms from Inspiralling Compact Binaries to Second Post-Newtonian Order

Luc Blanchet, Bala R. Iyer, Clifford M. Will, and Alan G. Wiseman  
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65. Gravitational Radiation from Compact Binary Systems: Gravitational Waveforms and Energy Loss to Second Post-Newtonian Order  
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68. Post-Newtonian Gravitational Radiation and Equations of Motion via Direct Integration of the Relaxed Einstein Equations. Foundations  
Michael E. Pati and Clifford M. Will  
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69. Testing Scalar-Tensor Gravity using Space Gravitational-Wave Interferometers  
Paul D. Scharre and Clifford M. Will  
THE PHYSICAL REVIEW D **65**, 042002 (2002) (gr-qc/0109044)
70. Post-Newtonian Gravitational Radiation and Equations of Motion via Direct Integration of the Relaxed Einstein Equations. II. Two-body equations of motion to second post-Newtonian order, and radiation-reaction to 3.5 post-Newtonian order  
Michael E. Pati and Clifford M. Will  
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71. Numerically Generated Quasi-Equilibrium Orbits of Black Holes: Circular or Eccentric?  
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74. Propagation Speed of Gravity and the Relativistic Time Delay  
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Clifford M. Will and Nicolas Yunes  
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78. On the Rate of Detectability of Intermediate-Mass Black-Hole Binaries using LISA  
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Gary Gibbons and Clifford M. Will  
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Jing Zeng and Clifford M. Will  
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Emanuele Berti, Sai Iyer and Clifford M. Will  
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90. Testing the General Relativistic “No-Hair” Theorems using the Galactic Center  
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Clifford M. Will  
THE ASTROPHYSICAL JOURNAL LETTERS **674**, L25 (2008) (arXiv:0711.1677)
91. Carter-like constants of the motion in Newtonian gravity and electrodynamics  
Clifford M. Will  
PHYSICAL REVIEW LETTERS **102**, 061101 (2009) (arXiv:0812.0110)
92. Bounding the mass of the graviton with gravitational waves: Effect of higher  
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Adamantios Stavridis and Clifford M. Will  
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95. Precessing supermassive black hole binaries and dark energy measurements with LISA  
Adamantios Stavridis, K. G. Arun and Clifford M. Will  
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98. Carter-like constants of motion in the Newtonian and relativistic two-center problems  
Saeed Mirshekari and Clifford M. Will  
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99. Stellar dynamics of extreme-mass-ratio inspirals  
David Merritt, Tal Alexander, Seppo Mikkola and Clifford M. Will  
THE PHYSICAL REVIEW D **84**, 044024 (2011) (arXiv:1102.3180)
100. Testing the black hole no-hair theorem at the galactic center: Perturbing effects of stars in the surrounding cluster  
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101. Constraining generic Lorentz violation and the speed of the graviton with gravitational waves  
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105. Dark matter distributions around massive black holes: A general relativistic analysis  
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  106. The Schwarzschild metric: It's the coordinates, stupid!  
 Pierre Fromholz, Eric Poisson and Clifford M. Will  
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  107. Incorporating post-Newtonian effects in  $N$ -body dynamics  
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 Clifford M. Will and Matthew Maitra  
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  110. Orbital flips in hierarchical triple systems: Relativistic effects and third-body  
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 Clifford M. Will  
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  111. Dark matter spikes in the vicinity of Kerr black holes  
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  112. Testing general relativity with compact-body orbits: A modified Einstein-Infeld-  
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  114. Solar system vs. gravitational-wave bounds on the graviton mass  
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Alexandria Tucker and Clifford M. Will  
CLASSICAL AND QUANTUM GRAVITY **36** 115001 (2019) (arXiv:1809.05163)
116. Compact binary inspiral: Nature is perfectly happy with a circle  
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117. A hidden friend for the Galactic Center black hole Sgr A\*  
Smadar Naoz, Clifford M. Will, Enrico Ramirez-Ruiz, Aurélien Hees, Andrea Ghez and Tuan Do  
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Clifford M. Will  
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Fatemeh Taherasghari and Clifford M. Will  
THE PHYSICAL REVIEW D **106** 064021 (2022) (arXiv:2207.13454)

## B. REVIEW ARTICLES, CONTRIBUTIONS TO BOOKS

1. High Precision Tests of General Relativity  
Kip S. Thorne and Clifford M. Will  
COMMENTS ON ASTROPHYSICS AND SPACE PHYSICS **2**, 31 (1970)
2. Theoretical Frameworks for Testing Relativistic Gravity - A Review  
Kip S. Thorne, Clifford M. Will, and Wei-Tou Ni  
PROCEEDINGS OF THE CONFERENCE ON EXPERIMENTAL TESTS OF GRAVITATION THEORIES,  
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