

**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
Clifford M. Will
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5. Relativistic Gravity in the Solar System. II. Anisotropy in the Newtonian Gravitational Constant
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THE ASTROPHYSICAL JOURNAL **169**, 141 (1971)
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.
THE ASTROPHYSICAL JOURNAL **177**, 757 (1972)
7. Conservation Laws and Preferred Frames in Relativistic Gravity. II. Experimental Evidence to Rule Out Preferred-Frame Theories of Gravity
Kenneth Nordtvedt, Jr. and Clifford M. Will
THE ASTROPHYSICAL JOURNAL **177**, 775 (1972)
8. Gravitational-Wave Observations as a Tool for Testing Relativistic Gravity
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10. On the Stability of Axisymmetric Systems to Axisymmetric Perturbations in General Relativity. V. Differentially Rotating Configurations
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11. Perturbation of a Slowly Rotating Black Hole by a Stationary Axisymmetric Ring of Matter. I. Equilibrium Configurations
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THE ASTROPHYSICAL JOURNAL **191**, 521 (1974)
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
Robert V. Wagoner and Clifford M. Will
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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
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Michael Turner and Clifford M. Will
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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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 27. Force on a Static Charge Outside a Schwarzschild Black Hole
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 28. Gravitational Radiation Quadrupole Formula is Valid for Gravitationally Interacting Systems
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34. Gravitational Redshift of Gravitational Clocks
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35. Classification of Gravitational Waves in a Nonsymmetric Gravitational Theory
Timothy P. Krisher and Clifford M. Will
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36. A New Class of Ideal Clocks
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37. Black Hole Normal Modes: A Semi-Analytic Approach
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38. The Real Value of Mercury's Perihelion Advance
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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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43. Damping of the Cosmological Constant by a Classical Scalar Field
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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
Clifford M. Will and Helmut W. Zaglauer
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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)^{5/2}-Newtonian Order: Late-Time Evolution and Gravitational Radiation Emission
Craig W. Lincoln and Clifford M. Will
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50. Christodoulou's Non-Linear Gravitational-Wave Memory: Evaluation in the Quadrupole Approximation
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51. Clock Synchronization and Isotropy of the One-Way Speed of Light
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53. Is Momentum Conserved? A Test in the Binary System PSR 1913+16
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54. Innermost Stable Orbits for Coalescing Binary Systems of Compact Objects
Lawrence E. Kidder, Clifford M. Will and Alan G. Wiseman
CLASSICAL AND QUANTUM GRAVITY (LETTERS) **9**, L125 (1992)
55. Post-Newtonian Gravitational Radiation Reaction for Two-Body Systems
Bala R. Iyer and Clifford M. Will
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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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60. Gravitational-Radiation Damping of Compact Binary Systems to Second Post-Newtonian Order
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61. Gravitational Waves from Inspiralling Compact Binaries: Parameter Estimation using Second-Post-Newtonian Waveforms
Eric Poisson and Clifford M. Will
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62. Head-on Collision of Compact Objects in General Relativity: Comparison of Post-Newtonian and Perturbation Approaches
Liliana E. Simone, Eric Poisson and Clifford M. Will
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64. Gravitational Waveforms from Inspiralling Compact Binaries to Second Post-Newtonian Order

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65. Gravitational Radiation from Compact Binary Systems: Gravitational Waveforms and Energy Loss to Second Post-Newtonian Order
Clifford M. Will and Alan G. Wiseman
THE PHYSICAL REVIEW D **54**, 4813 (1996) (gr-qc/9608012)
66. Gravitational Waves from Binary Systems in Circular Orbits: Does the Post-Newtonian Expansion Converge?
Liliana E. Simone, Stephen W. Leonard, Eric Poisson, and Clifford M. Will
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67. Bounding the Mass of the Graviton using Gravitational-Wave Observations of Inspiralling Compact Binaries
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68. Post-Newtonian Gravitational Radiation and Equations of Motion via Direct Integration of the Relaxed Einstein Equations. Foundations
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69. Testing Scalar-Tensor Gravity using Space Gravitational-Wave Interferometers
Paul D. Scharre and Clifford M. Will
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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
THE PHYSICAL REVIEW D **65**, 104008 (2002) (gr-qc/0201001)
71. Numerically Generated Quasi-Equilibrium Orbits of Black Holes: Circular or Eccentric?
Thierry Mora and Clifford M. Will
THE PHYSICAL REVIEW D (RAPID COMMUNICATIONS) **66**, 101501 (2002) (gr-qc/0208089)
72. Covariant Calculation of General Relativistic Effects in an Orbiting Gyroscope Experiment
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THE PHYSICAL REVIEW D **67**, 062003 (2003) (gr-qc/0212069)
73. Deflection of Light to Second Order: A Tool for Illustrating Principles of General Relativity
Jeremiah Bodenner and Clifford M. Will
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74. Propagation Speed of Gravity and the Relativistic Time Delay
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76. A Post-Newtonian Diagnostic of Quasi-Equilibrium Binary Configurations of Compact Objects
Thierry Mora and Clifford M. Will
THE PHYSICAL REVIEW D **69**, 104021 (2004). (gr-qc/0312082)
77. Testing Alternative Theories of Gravity using LISA
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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80. Post-Newtonian Gravitational Radiation and Equations of Motion via Direct Integration of the Relaxed Einstein Equations. III. Radiation Reaction for Binary Systems with Spinning Bodies
Clifford M. Will
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81. Testing General Relativity and Probing the Merger History of Massive Black Holes with LISA
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82. Gravitational Recoil of Inspiralling Black-Hole Binaries to Second Post-Newtonian Order
Luc Blanchet, Moh'd S. S. Qusailah and Clifford M. Will
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83. On Gravitational-wave Spectroscopy of Massive Black Holes with the Space Interferometer LISA
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85. On the Multiple Deaths of Whitehead’s Theory of Gravity
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86. Post-Newtonian Gravitational Radiation and Equations of Motion via Direct
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Han Wang and Clifford M. Will
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87. Post-Newtonian Gravitational Radiation and Equations of Motion via Direct
Integration of the Relaxed Einstein Equations. V. The Strong Equivalence
Principle to Second Post-Newtonian Order
Thomas Mitchell 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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K. G. Arun and Clifford M. Will
CLASSICAL AND QUANTUM GRAVITY **26**, 155002 (2009) (arXiv:0904.1190)
93. Post-Circular Expansion of Eccentric Binary Inspirals: Fourier-Domain Wave-
forms in the Stationary Phase Approximation
Nicolás Yunes, K. G. Arun, Emanuele Berti and Clifford M. Will
THE PHYSICAL REVIEW D **80**, 084001 (2009) (arXiv:0906.0313)

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95. Precessing supermassive black hole binaries and dark energy measurements with LISA
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96. Gravitational-wave recoil from the ringdown phase of coalescing black hole binaries
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97. Testing properties of the galactic center black hole using stellar orbits
David Merritt, Tal Alexander, Seppo Mikkola and Clifford M. Will
THE PHYSICAL REVIEW D **81**, 062002 (2010) (arXiv:0911.4718)
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
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Saeed Mirshekari, Nicolás Yunes and Clifford M. Will
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102. Gravitational radiation from compact binary systems in the massive Brans-Dicke theory of gravity
Justin Alsing, Emanuele Berti, Clifford M. Will and Helmut Zaglauer
THE PHYSICAL REVIEW D **85**, 064041 (2012) (arXiv:1112.4903)
103. Capture of non-relativistic particles in eccentric orbits by a Kerr black hole
Clifford M. Will
CLASSICAL AND QUANTUM GRAVITY **29**, 217001 (2012) (arXiv:1208.3931)
104. Compact binary systems in scalar-tensor gravity: Equations of motion to 2.5 post-Newtonian order

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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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108. Post-Newtonian effects in N -body dynamics: Relativistic precession and conserved quantities in hierarchical triple systems
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109. Relativistic orbits around spinning supermassive black holes. Secular evolution to 4.5 post-Newtonian order
Clifford M. Will and Matthew Maitra
THE PHYSICAL REVIEW D **95**, 064003 (2017) (arXiv:1611.06931)
110. Orbital flips in hierarchical triple systems: Relativistic effects and third-body effects to hexadecapole order
Clifford M. Will
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111. Dark matter spikes in the vicinity of Kerr black holes
Francesc Ferrer, Augusto Medeiros da Rosa and Clifford M. Will
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112. Testing general relativity with compact-body orbits: A modified Einstein-Infeld-Hoffmann framework
Clifford M. Will
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113. New general relativistic contribution to Mercury's perihelion advance
Clifford M. Will
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114. Solar system vs. gravitational-wave bounds on the graviton mass
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115. Pericenter advance in general relativity: Comparison of approaches at high post-Newtonian orders
Alexandria Tucker and Clifford M. Will
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116. Compact binary inspiral: Nature is perfectly happy with a circle
Clifford M. Will
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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
THE ASTROPHYSICAL JOURNAL LETTERS, **888**, L8 (2020) (arXiv:1912.04910)
118. Higher-order effects in the dynamics of hierarchical triple systems. Quadrupole-squared terms
Clifford M. Will
THE PHYSICAL REVIEW D **103**, 063003 (2021) (arXiv:2011.13286)
119. Residual eccentricity of inspiralling orbits at the gravitational-wave detection threshold: Accurate estimates using post-Newtonian theory
Alexandria Tucker and Clifford M. Will
THE PHYSICAL REVIEW D **104**, 104023 (2021) (arXiv:2108.12210)
120. Modified geodesic equations of motion for compact bodies in alternative theories gravity
Fatemeh Taherasghari and Clifford M. Will
THE PHYSICAL REVIEW D **106**, 064021 (2022) (arXiv:2207.13454)
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Eric Zhang, Smadar Naoz and Clifford M. Will
THE ASTROPHYSICAL JOURNAL **952**, 103 (2023) (arXiv:2301.08271)
122. Constraining a companion of the Galactic center black hole Sgr A*
Clifford M. Will, Smadar Naoz, Aurélien Hees, Alexandria Tucker, Eric Zhang, Tuan Do and Andrea Ghez
THE ASTROPHYSICAL JOURNAL, **959**, 58 (2023) (arXiv:2307.16646)
123. Compact binary systems in Einstein-Aether gravity: Direct integration of the relaxed field equations to 2.5 post-Newtonian order
Fatemeh Taherasghari and Clifford M. Will
PHYSICAL REVIEW D **108**, 102026 (2023) (arXiv:2308.13243)

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
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EXPERIMENTAL GRAVITATION: PROCEEDINGS OF THE INTERNATIONAL SCHOOL OF PHYSICS "ENRICO FERMI", COURSE 56,
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4. The Confrontation Between Gravitation Theory and Experiment
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