

## Références

- V. Acquaviva, C. Baccigalupi, F. Perotta, Weak lensing in generalized gravity theories, Physical Review D70, 023515 (2004)
- R. Benedetti, C. Petronio, Lectures on Hyperbolic Geometry, Springer-Verlag 1992
- Cartan E. , Leçons sur la Géométrie des espaces de Riemann.  
Ed Gauthier-Villars, 1963, deuxième édition
- M. Caselle, U. Magnea , Random Matrix Theory and Symmetric Spaces.  
Physics Reports 394 (2004) p.41
- Cornwell J.F. , Group Theory in Physics , Academic Press 1984
- B. Everitt, Topology and its Applications 138 (2004) 253
- V. Faraoni, E. Gunzig, P. Nardone, Conformal transformations in classical gravitational theories and in cosmology. Fund. Cosm. Phys. 20, 121, 1999
- Goldberg S. I. , Curvature and Homology , Academic Press 1962
- W. Israel and J.N. Vardalas, Transport Coefficients of a Relativistic Quantum Gas.  
Lettere al Nuovo Cimento, vol IV, N° 19, p 887 (1970).
- Landau et Lifschitz , Théorie classique du champ Ed Mir  
Plus récent : Classical Theory of Fields, Fourth revised english edition  
Butterworth Heinemann ed.
- C. Magneville, J.P. Pansart, Algèbres de Clifford, spineurs, groupes spinoriels et groupes de recouvrement. , Note CEA-N-2659 Mars 1991, Commissariat à l'énergie Atomique.
- A. Mardones, J. Zanelli, Lovelock-Cartan theory of gravity ,  
Class. Quantum Grav. 8 (1991) 1545-1558
- N.D. Mermin, The topological theory of defects in ordered media.  
Reviews of Modern Physics , Vol 51 (1979)
- V.F. Mukhanov, H.A. Feldman, R.H. Brandenberger, Theory of cosmological perturbations  
Physics Reports 215 (1992) 203-333
- A. Papapetrou, Proc. Roy. Soc A 209 (1951) p. 248.
- N.C. Petroni, P. Gueret, J.P. Vigier, A. Kyprianidis, Second order wave equation for spin  $\frac{1}{2}$  fields. Physical Review D Vol. 31 (1985) p. 3157  
Physical Review D Vol. 33 (1986) p. 1674

Rovelli C., Landshoff P.V. , Quantum Gravity , Cambridge University Press 2004

Parmi les nombreux sites accessibles,citons par exemple :

<http://relativity.phys.lsu.edu/ilqgs/yunes100708.pdf>

Schuller Frederic, Lectures on the Geometric Anatomy of Theoretical Physics.

[www.youtube.com/playlist?list=PLPH7f\\_7ZlzxTi6kS4vCmv4ZKm9u8g5yic](http://www.youtube.com/playlist?list=PLPH7f_7ZlzxTi6kS4vCmv4ZKm9u8g5yic)

T. Sotiriou, V. Faraoni, f(R) theories of gravity ,  
Reviews of Modern Physics Vol 82 (2010) p. 451

Wallace A. H. , Introduction à la Topologie Algébrique , Gauthier-Villars, 1973

Wolf J. A. , Spaces of Constant Curvature , Publish or Perish (Fifth Edition) 1984

A. Zee, Quantum Field Theory in a Nutshell. Princeton university press.

Variétés hyperboliques : Constructing hyperbolic manifolds

[www.maths.ox.ac.uk/~lackenby/hypox611.ps](http://www.maths.ox.ac.uk/~lackenby/hypox611.ps)

Le site suivant permet d'obtenir des définitions précises, et un certain nombre de démonstrations : [planetmath.org](http://planetmath.org)