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#### Chapter in Books

1. Wenzel HJ, Schwartzkroin PA (2006) Morphologic approaches to the characterization of epilepsy models. In: Pitkanen A, Schwartzkroin PA, Moshe SL (eds) *Models of seizures and epilepsy*, Elsevier Academic Press, San Diego, pp. 629-652.

#### Book

1. Pechenik JA (1987) *A short guide to writing about biology*. Harper Collins Publishers, New York.

#### Book in a series

1. Bhattacharjee M (1998) *Notes of infinite permutation groups, Lecture notes in mathematics* no.1698, Springer, New York.

#### **Encyclopedia articles**

1. Varley DH, Immelman RFM (1972) Libraries.Standard Encyclopaedia of Southern Africa, vol.6, p.618-619

#### Thesis/dissertation

1. Smithers RHN (1997) The mammals of Botswana. DSc thesis. University of Pretoria.

#### **Conference proceedings**

1. Bourassa S (1999) 'Effects of child care on young children', *Proceedings of the third annual meeting of the International Society for Child Psychology*, International Society for Child Psychology, Atlanta, Georgia, pp. 44-6.

#### Citations from Internet

- 1. The following elements in sequence must be considered: Author (if known), Date of publication/last updated, Title of article or document on website Type of medium [Online], Available from (website), Access date in brackets
- 2. Harris P (2005) Reaching the top of the mountain. [Online]. Oxford University Press: Oxford. Available: http://www.netLibrary.com/openbook/093456/html [Accessed 8 January 2008]
- 3. Useful tips for referencing. [Online]. Available: http://www.referencetips.org.za [Accessed 5 November 2008].
- 4. Lawrence JJ (2005) Cholera epidemics in central Africa. The Times, 26 June 2005. [Online]. Available: <a href="http:://thetimes.com">http:://thetimes.com</a> [Accessed 27 June 2005].

### **Patents**

1. Author(s) of patent – surname and initials Year of issue, Title of patent- italicised, Number of patent including country of issue Cookson AH (1985) Particle trap for compressed gas insulated transmission systems, US Patent 4554399.

# **Bibliography**

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