

Variety (glossary)

variety

The printable version is no longer supported and may have rendering errors. Please update your browser bookmarks and please use the default browser print function instead.

(1) *A measure of the connectivity between system elements (Ashby 1956)*

(2) *Interacting systems stability increases with variety, and with the degree of connectivity of that variety within the environment (Hitchins 2007)*

Sources

(1) Ashby, W.R. 1956. *Introduction to Cybernetics*. London, UK; J. Wiley.

(2) Hitchins, D. 2007. *Systems Engineering: A 21st Century Systems Methodology*. Hoboken, NJ, USA: Wiley

Discussion

(1) Is a cybernetic term used to define the number of available connections between elements, and thus the potential routes for control actions.

(2) Is a systems engineering definition, in which variety of connections between elements is used as a way to increase the stability and potential of a system to achieve its goals. Hitchins refers to this as Connected Variety, and also discussed the limits on this connectivity applied by availability of time, space, resource.

SEBoK v. 2.6, released 20 May 2022

Retrieved from

"[https://www.sebokwiki.org/w/index.php?title=Variety_\(glossary\)&oldid=65680](https://www.sebokwiki.org/w/index.php?title=Variety_(glossary)&oldid=65680)"

This page was last edited on 19 May 2022, at 19:32.