

What are the General Principles Applicable to Systems?

From SEBoK

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Hitchins, D. 2009. "What are the General Principles Applicable to Systems?" *INCOSE Insight*. 12(4): 59-63.

Usage

This source is considered a primary reference for the following articles:

- Systems Approach Applied to Engineered Systems
- Synthesizing Possible Solutions
- Applying the Systems Approach
- Concepts of Systems Thinking

Annotation

Derek Hitchins is a respected authority and author on systems theory and systems engineering (SE), particularly the engineering of complex systems. This article provides an overview of the concepts used across Systems Engineering, it give a good set of references to follow up the ideas in more detail. This article was prepared for the *INCOSE Insight* magazine as part of an INCOSE Fellows project to address certain areas of interest in SE. In particular, this article describes the main system concepts relevant to SE. The general principles applicable to systems in this article become the basis for the systems approach to be discussed later. This article shows how the general principles applicable to systems can be used in the synthesis of a system within the systems approach. This article describes the general principles applicable to system that are later incorporated in SE which is the application of the Systems Approach for engineered systems.

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