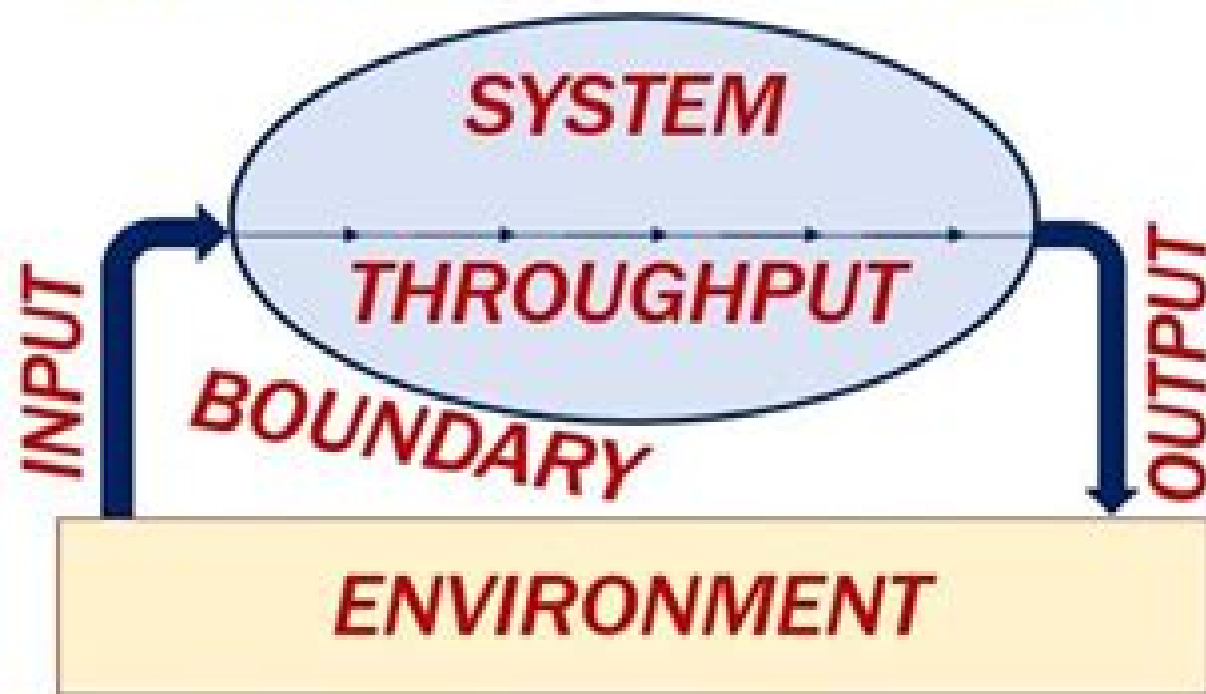


# What is General Systems Theory or GST?

For human life system, for example. Input is food and oxygen. Output is CO<sub>2</sub>, urine and feces. The environment is where we live.



*Most systems follow the same principles as those for human life.*

*In virtually every system there is the environment, input, output, throughput, and a boundary.*

**A theory that proposes that complex systems share some basic organizing principles, regardless of their purposes.**

# General System Theory

**John P. Van Gigch**



## **General System Theory:**

**General System Theory** Ludwig von Bertalanffy, 1971      General System Theory Anatol Rapoport, 1986      **General Systems Theory** Lars Skyttner, 2001 The world in which classical positivistic science and technology obtained great success has vanished. However, the way of thinking promoted by that epoch still lingers in our social consciousness sometimes as a burden. To conquer the shortcomings of classical analytical science in the modern ever more complex world, systems theory and its applications within systems science present an alternative to old paradigms. Systems theorists see common principles in the structure and operation of systems of all kinds and sizes. They promote an interdisciplinary science adapted for a universal application with a common language and area of concepts. This approach is seen as a means of not only overcoming the fragmentation of knowledge and the isolation of the specialist but also finding new solutions to problems created by the earlier solution of problems. This book introduces the systemic alternative. It is divided into two parts. The first is devoted to the historical background of the systems movement and presents pioneering thoughts and theories of the area. Basic concepts of general systems theory with well known laws and principles are discussed as well as related topics like cybernetics and information theory. The second part deals with some of the common applications of systems theory within systems science such as artificial intelligence, management information systems, and informatics. An attempt is made to predict the future of systems theory in a world apparently becoming fragmented and integrated at the same time. To engage oneself in systems theory and its striving towards an applied universal science is a highly cross scientific occupation. The reader will come into contact with many different academic disciplines and consequently the possibility of an all round education, something particularly needed in our over specialized world.      **Views on General Systems Theory** Mihajlo D. Mesarović, 1964

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**General Systems Theory: Mathematical Foundations**, 1975-03-21. In this book we study theoretical and practical aspects of computing methods for mathematical modelling of nonlinear systems. A number of computing techniques are considered such as methods of operator approximation with any given accuracy, operator interpolation techniques including a non Lagrange interpolation method, methods of system representation subject to constraints associated with concepts of causality, memory and stationarity, methods of system representation with an accuracy that is the best within a given class of models, methods of covariance matrix estimation, methods for low rank matrix approximations, hybrid methods based on a combination of iterative procedures and best operator approximation, and methods for information compression and filtering under condition that a filter model should satisfy restrictions associated with causality and different types of memory. As a result the book represents a blend of new methods in general computational analysis and specific but also generic techniques for study of systems theory and its particular branches such as optimal filtering and information compression. Best operator approximation, Non Lagrange interpolation, Generic Karhunen Loeve transform, Generalised low rank matrix approximation, Optimal data compression, Optimal nonlinear filtering.

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- Chapter 2: Essential Elements of General System Theory
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- Chapter 5: Conclusion

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