

# The Program of the Universe General Systems Sciences

Have you ever wondered about the underlying program that governs the functioning of the universe? The General Systems Sciences is a field of study that aims to understand the fundamental principles and dynamics that shape our world. In this article, we will explore this fascinating discipline and uncover the hidden program of the universe.

## Understanding General Systems Sciences

General Systems Sciences is an interdisciplinary field that integrates concepts from various scientific disciplines, including physics, biology, chemistry, sociology, and more. It seeks to uncover the universal patterns and principles that can be found across different complex systems, ranging from living organisms to societal structures.

At its core, General Systems Sciences views the universe as a vast interconnected network of systems, where every component is inherently linked to others. It recognizes that the properties and behaviors of these systems emerge from the interactions between their constituent parts, rather than being solely determined by individual components.



## Time Cycles: The program of the Universe. (General Systems Sciences (I): Logic and Mathematics Book 1) by Thomas J. Webster(Kindle Edition)

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By studying these patterns, General Systems Sciences offers a framework for understanding how different systems, from microscopic particles to galaxies, function and evolve. This holistic approach enables scientists to explore the fundamental laws and governing principles that apply universally across numerous disciplines and contexts.

## **The Program of the Universe**

The concept of a program underlying the universe suggests that there exists a set of rules or laws that dictate the behavior and evolution of all systems. This concept draws inspiration from computer science and the idea that programs govern the operation of software systems.

In the context of General Systems Sciences, the program of the universe refers to the fundamental principles that form the basis of all natural phenomena. These principles provide a framework for understanding and predicting the behavior of complex systems, with both deterministic and probabilistic aspects.

Some of the key principles that define the program of the universe include:

1. **Emergence:** Complex properties and behaviors that arise from interactions between simple components.

2. Hierarchy: Systems are organized into hierarchical structures with different levels of organization and emergent properties.
3. Feedback: Interactions between components in a system that create feedback loops, influencing the system's behavior.
4. Adaptation: Systems have the ability to adapt and evolve in response to changes in their environment.
5. Homeostasis: Systems strive to maintain a stable state or equilibrium by self-regulating their internal processes.

## **Applications and Implications**

The Program of the Universe General Systems Sciences offers numerous applications across various fields. Understanding the fundamental principles of complex systems can help address real-world problems, such as climate change, social dynamics, and technological advancements.

In the field of biology, General Systems Sciences provides insights into how living organisms function and adapt to their environment. By studying the interconnectedness of biological systems, scientists can develop strategies to combat diseases, understand ecosystems, and improve food production.

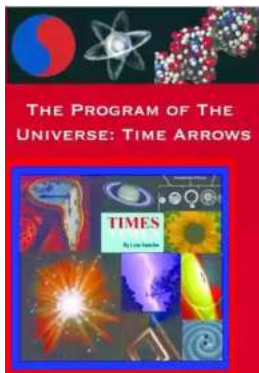
In social sciences, General Systems Sciences sheds light on the dynamics of human societies, economic systems, and cultural phenomena. It helps explain the emergence of social structures, collective behavior, and the impact of policies and interventions.

Technological advancements, such as artificial intelligence and machine learning, can also benefit from the principles of General Systems Sciences. By understanding the underlying program of the universe, researchers can design

more efficient algorithms and models, enabling breakthroughs in various industries.

The Program of the Universe General Systems Sciences unlocks the hidden secrets of the universe by uncovering the fundamental principles that govern the behavior and evolution of complex systems. This interdisciplinary field provides a holistic framework for understanding and predicting the behavior of diverse phenomena, from microscopic particles to societal structures.

By studying the principles of General Systems Sciences, scientists can apply this knowledge to various fields, paving the way for advancements in biology, social sciences, and technology. As we delve deeper into the mysteries of the universe, the program of the universe offers new insights and avenues for exploration.



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‘The Universe is a fractal of actions.’

This rather short definition is deeply meaningful, because unlike other 'spatial' definitions concerning the structure of the Universe in space (a theme enclosed in the concept of fractal), the main stress is on the concept of time actions. Planck discovered the physical duality of the Universe: we are made of actions of quantum energy & cyclical time. The sum of those vital energies is space; the sum of all the cycles of time with form, with in/form/ation is time. But each complementary entity with its body/field of energy and head/particle of information is an independent entity. How many actions exist? only 4 as we are made only of two substances: energy feeding, E, informative perception, I, Reproduction  $E=I=K$  and social evolution.

And so all beings are 'knots' of those 4 actions or time arrows; including us. And all we do are those 4 actions.

So in Physics all what exists is 4-dimensional space-time, each dimension and arrow. In physics 4 numbers define those actions and all its species are particles of information associated to an energetic field that moves them, and only both can exist together, creating a physical entity.

In Biology the 4 bases of the DNA code 'express those actions. And all cells have a DNA nucleus of information, surrounded by cellular cytoplasm that provides energy to the nucleus; or an informative head moved by an energetic body. And only both together create a biological organism.

-This happens also in social sciences, since societies have an upper caste of information that rules with legal and financial languages, a body of working citizens.

And all what we do with our physiological networks of energy, reproduction (Blood) and information (nervous system) and its outlets, the senses, is to feed, inform, reproduce and love eusocially other humans.

It follows that a 'Theory of Unification' should go beyond the reductionist limits of physics and include the arrow of information and the Biological and Social sciences in which form dominates over energy as Duality and General Systems

Theory - two relatively new disciplines born in the Macy's conferences, the foundational event of the sciences of information - do.

A world made with 2 time arrows has a dualist, 'dialectic' logic more complex than the single causality of Aristotle and requires a type of mathematics (non-Euclidean, fractal equations) discovered only recently.

For 2 decades I worked on the completion of such complex formalism, applying it later to all scientific disciplines, solving many of its pending questions, which I exposed in several books published in Spain and a series of conferences as the chair of duality at the International Systems Sciences Society back in the 2000s. This series brings the model to an English audience, exploring exhaustively the formalism of GST & Duality, latter applied to different disciplines at a professional level in 3 volumes:

- The 1st book (Arrows of time) introduces the model in a general way, by defining the 2 arrows of time and the Laws that combine energy and information to create all entities of reality. It derives then from them, the main laws of all scientific disciplines, each one dedicated to the study of a scale of reality and its complementary species of energy and information, with different jargons, unified now by the laws of Duality.

The 2nd book of the series (The Fractal Universe) focuses in an analysis in depth of the logical and mathematical formalism of Duality and General Systems Sciences, applying it to astro-physics, solving many of the questions unanswered by monist physics - from the nature of mass and dark energy to the paradoxes of quantum physics, easily resolved when we explain the fractal, organic nature of space and time.

Finally, the 3rd book (Complexity and Evolution), applies those laws to explain the evolution of life, from simple amino acids to the super-organisms of mankind (Gods, nations & civilizations)



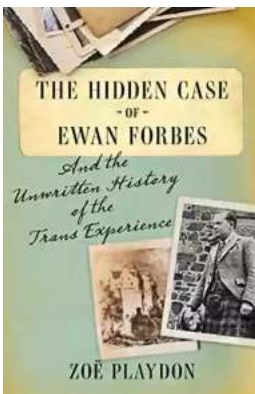
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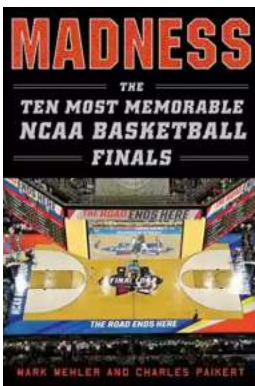
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