
Introduction

In simple terms, entropy is a measure of order and disorder, in our human bodies, in so-called inanimate organizations such as corporations, and even the universe. If left alone, these aging systems go spontaneously from low entropy and order, to high entropy and disorder. From life to death, where death is maximum disorder or maximum entropy. This means we can also tell the direction of time (time's arrow) since natural things proceed in the direction of increasing entropy.

So we present here the commonality of principles which govern the birth, maturing, and senescence history of aging systems, all of us. We will show the entropic processes at work in humans, corporations, and the universe. We will show the entropy calculations which trace the lifecycle of everything. And in the end, it's all about life and death, Infinity and God.

In Part I, "Life and Death", Chapter I, we present two fictional short stories. The first, "A Journey", deals with death, what it feels like, and where we might go afterward. The second, "In God We Trust", tells us about George, the carbon atom, and his journeys through our world, and his commitment to the rationality of it all.

In Part II, "Entropy, Infinity and God", Chapters 2 to 4, we summarize the significance in our everyday lives of these three defining concepts.

In Part III, "Lifespan and Factors Affecting It: Humans", Chapters 5 and 6, we list the losses with age, theories and speculation in regard to the aging process, and the influence of increasing entropy, the metabolic rate, and exercise on human longevity.

In Part IV, "Entropy Theory of Aging Systems: Humans", Chapters 7 to 9, we explore an entropy theory of aging, including a new entropy age scale. We explore the influence of time in the life process, give more details on the confluence of the basal metabolic rate and entropy concepts in the aging and death of humans. All this leads to Excess Entropy and

Excess Entropy Production as bio-markers and predictors of life's longevity potential.

In Part V, "Entropy Theory of Aging Systems: The Corporation", Chapters 10 to 15, we introduce the aging of so-called inanimate systems such as cities, corporations and civilizations. We connect these aging systems to the entropy concept: why they age, the dynamics of the change process, and order and disorder. What we have is a new dialogue for understanding our existence. These so-called inanimate systems seemingly evince the same characteristics as living, aging systems. We analyze the corporate structure, how it functions, the efficiency of information flow, and how we use an entropy theory to characterize the aging process and its lifecycles.

In Part VI, "Entropy Theory of Aging Systems: The Universe", Chapters 16 to 18, we develop entropy concepts and equations governing the Universe. The birth, maturing, and death of the Universe can be understood and traced, from an entropy point of view. With pressure, volume, temperature, and entropy calculations, we can understand the lifecycle of the Universe. And its origin and return to Infinity.

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