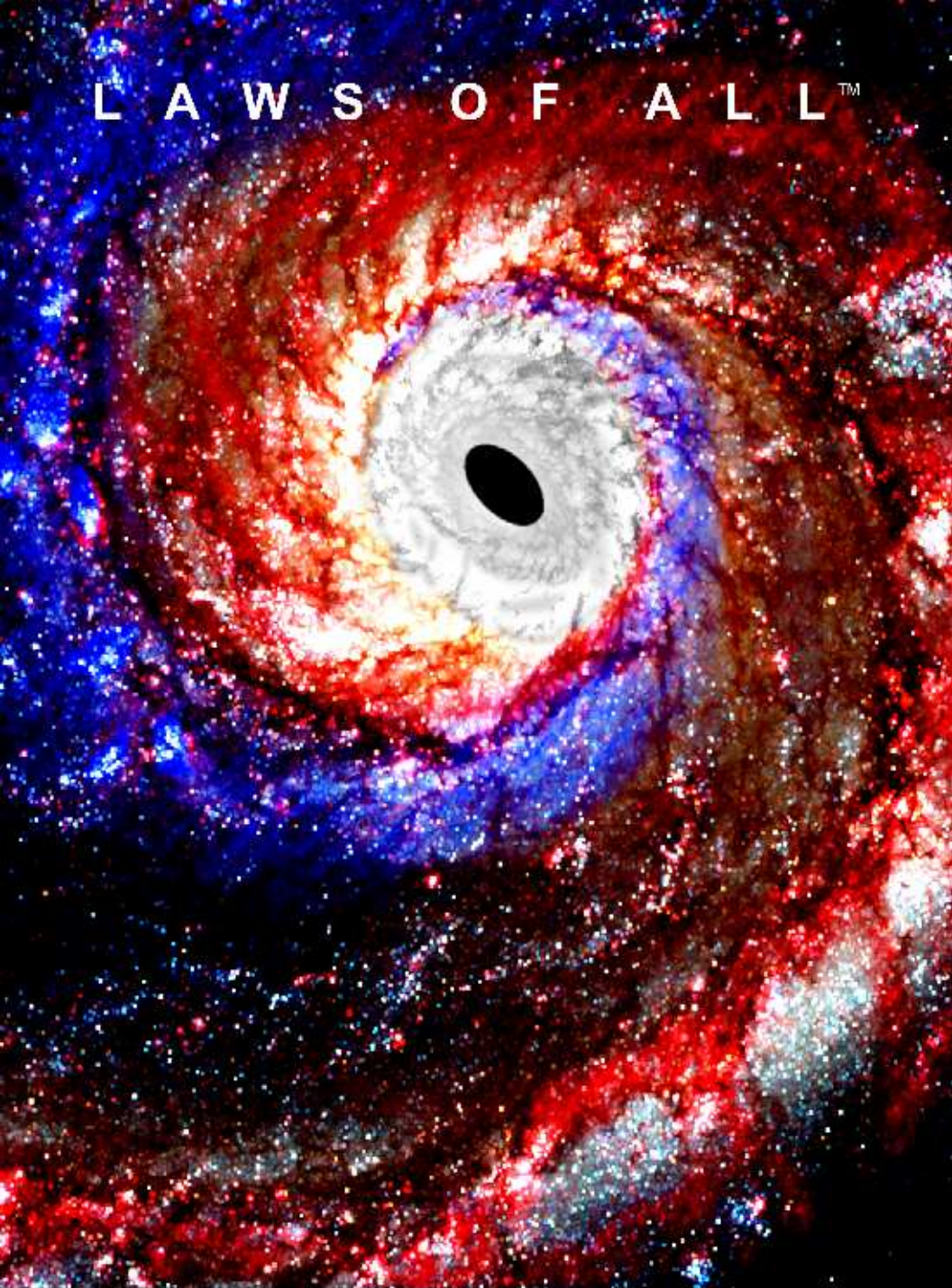


L A W S O F A L L TM



System Laws Reveal Hidden Secrets of the Universe
and Approaching Dark Age of Civilization,
Part I - Quest for Life, Vol. 1/1.2

M i c h a e l H . B i n s

The ***LAWS OF ALL***™ Book Series

Everything around us is a system. The universe and our own bodies are systems. Social, political and economic systems govern our civilization. Yet general laws of all systems, which might guide us in managing these systems far less recklessly, are not widely recognized to exist, never mind that there's little or no description of them. The *Laws of All*™ book series works at filling in that knowledge void.

In the course of this research, keys to the universe's "chest" of deeply buried secrets were found and applied. This led to a new *foundational* understanding of general systems, their laws, and their application toward the diverse and oftentimes cryptic systems of not only the "hard" universe, but also the socio-politico-economic "universe," and beyond. Stemming from all this is a new understanding of our physical reality that entails profound implications across the board with the future possibility of great societal advancement.

On the one hand, humanity appears to be at the threshold of an *evolutionary* "springboard" of sorts, able to propel us and our galaxy of knowledge to new and unimaginable heights. But on the other hand, it appears we've latched onto a "devolutionary" death spiral: out of control and circling a dark-age, if not the end of all human existence. By becoming more aware of deep-seated errors and deficiencies ingrained in the human psyche as well as why they exist and how they propagate, society is given fighting tools to help fend off the negative outcome and guide itself to a more desirable destination—perhaps even into a new *enlightened age*.

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Adapted from a Hubble Space Telescope image of the
Whirlpool Galaxy, M51a (NGC 5194), courtesy of NASA, ESA,
S. Beckwith (STScI), and the Hubble Heritage Team (STScI/AURA).

...to all life on Earth...that it may persist...

In gratitude to the *Quintessence* for teaching: When faced
with constant hurdles, persistently envision what
lays beyond the “event horizon”...

In gratitude to the *Quintessence* for making
this book possible...

In gratitude to the *Quintessence* for...

PART

I

**Quest for Life: Fundamental
Concepts, Laws and
Principles**

1.2 The Approaching Dark Age of Civilization: The Theory of None

Also alluded to in the book's subtitle is a reference to the possibility of a societal *dark age*. The phrase, *approaching dark age* is used rather than *coming dark age*, to indicate that it may still be possible to avoid such a worldwide catastrophe. However, the ability to make midcourse corrections becomes succeedingly challenging as we make our approach. And based on the findings presented, which are supported by the empirical evidence of history, the undesirable outcome is all but a certainty if world leaders don't veer off in time; the reasons for this are made clear.^[BO] Hopefully, it is not already too late, but even the RMS *Titanic* saw the iceberg ahead. And as any ship's engineer would say, physical laws don't take a day off—or even one second—just because an “iceberg” is not seen far enough in advance to account for the *momentum*. Enormous “moments of inertia” require enormous powers and energies to avert disaster, which is to say, it's immensely difficult to yaw a massive socio-politico-economic system sharply even when the speed is slow and unresponsive to a “throttle setting” of just 1/4 percent interest (if that). Short of achieving a safe vector with adequate clearance, we must keep chipping away at the ice. We must keep sculpting the various “bergs” of knowledge into useful tools of truth before the system “sculpts” us and our SS *Civilization* into nothing more than a lost artifact.

The phrase *dark age* used here refers to an age of dimmed knowledge resulting from a severe imbalance in socio-politico-economic power. This indicates some form of totalitarian control and oppression—a virtual slave-state—quite possibly over most or all of the world. Consequently, this would represent the curtailment of learning and a receding of hard-won knowledge and truth in which social stagnation and deterioration set in. Media bias, government censorship, misinformation, disinformation and news blackouts would all likely play a role in this dimming process. Based on a 2009 worldwide survey of press freedom, already a whopping 42 percent of the world’s population reside in countries in which the press is rated “not free” while only 17 percent are in countries rated fully “free.”¹³ This was the first time the ongoing study detected decreases in freedom of the press “in every region” of the globe; and the whole world has been in a long-term downtrend with drops every year since 2001.¹⁴

Such a calamitous dark-age outcome does not imply the existence of some grand conspiracy to bring it about. Instead, the analysis shows that well-meaning people with the best of intentions can lead to this outcome since the socio-politico-economic system—and, in fact, any system—naturally gravitates to a virtually dead dark-age-type state if not properly managed.^[BP] The seeds leading to such a failed state are believed to include the natural needs of the individual, an integral component inherent in any social system. But more crucial to the main point, the cause of all this is simply a lack of knowledge of the way systems function

thus precluding proper management. This is not the world according to me; it is the world according to itself. This is not simply an opinion; it is based on derived general laws that govern all systems. So the conspiracy that a skeptic might say does not exist is, effectively, a *conspiracy by the system* itself—one based on the very foundation of system existence. It's simply an inherent part of the way all systems operate based on these fundamental, governing general laws. So lacking the attentive stewardship required, the broad features of the end result are largely predictable.

As a consequence of this *self-conspiring* nature, the perennial struggle of “us against them” truly boils down to “us all against the system,” i.e., the political, economic and/or social system. But this is not meant to imply the outright destruction and elimination of all these governing systems. Instead, it refers to a struggle to understand the optimal operation of these systems so that we may guide and direct them to the benefit of all mankind rather than them directing us to our own demise. Or in other words, we must learn how to approach the system so that a dark age stops approaching us. *Knowledge is truly the universal equalizer*. So the goal must be to expand our common knowledge and common sense of systems, especially those so crucial to our common survival. In a more-enlightened world, this knowledge of systems would boldly betray the common “enemy” and instantly unite opposing factions on at least some small strip of common ground—a barrier island, if you will—that protects humanity from those “rogue waves” the system

inevitably rolls our way. But welcome to the dimming world...

While this dark age of dimmed knowledge does not refer to an actual darkening of the light on the planet, incredibly there is such an analogous physical effect taking place. That is, the physical effect of *global dimming* was confirmed to exist in 2001 by researchers, Gerald Stanhill and Shabtai Cohen; and based on data compiled over 34 years ending 1992, a roughly 3-percent-per-decade decrease in the sunlight able to pass through atmospheric pollution and reach the Earth's surface has been reliably observed.¹⁵ This draws a shocking parallel to the above dimming of knowledge because this global-dimming phenomenon itself seems to be almost unheard of by the general public. Yet geographer, Atsumu Ohmura, originally discovered it decades ago in 1985.¹⁶ So while the entire world should be stopped and listening intently to what the Earth is trying to tell it, instead knowledge of this astounding physical dimming process has itself been dimmed, despite the alarming ramifications of such an extraordinary rate of decline. This begs the question: how many decades before all oxygen-producing vegetation within the global ecosystem becomes extinct? Permanent adornment of scuba tanks and gas masks is an unpleasant prospect for the surviving populace. Yet with knowledge of this problem dimmed in the public psyche, what public official will work eagerly to prevent this calamity?

Even more disturbing is a prospect suggested by more-recent scientific findings. They show that since the meas-

ured effect of global dimming appears to largely cancel the effect of global warming, *both* have been grossly underestimated in the past.¹⁷ For example, in spite of this cancelatory effect, it's possible global dimming may have already killed a million due to devastating droughts it might have triggered.¹⁸ So based on the evidence, it would appear that if these effects are not properly managed and stabilized, planet Earth is either headed for a globally “dim” environmental scenario, one ridden with choking smog and deep persistent droughts that remain a mystery, or, it's headed for a globally “warm” environment geopolitically inflamed by scorching heat, and eventually flooded with melting ice-shelves and—possibly exploding—methane gas. Either way, one can only imagine the intensity of social unrest and upheaval, the extreme volatility of destabilized politico-economic systems, the ensuing wars over what would be shrinking habitable land masses—ones stripped of their barrier islands.

The only viable choices that the global ecosystem seems to be presenting us are to learn how to effectively manage it, or die trying. But even knowing all the scientific facts necessary, the geopolitics needed to deal with them seem daunting. Consider that implementing pollution management without regard to the greenhouse effect would act to decrease the global cooling from dimming and thus accelerate us toward something like the latter scenario depicted above as the canceling effect is reduced; at some point, this process becomes calamitous and cannot be undone, yet allowing pollution to continue unabated would not only be

bad for the lungs, it would not stop global warming either.¹⁹ And the delicate “climato-politico-economic” balancing act that’s instead needed to manage both dimming and warming simultaneously across multiple countries sounds like an impossible circus act. Effectively, this would seem to amount to the second choice above: die trying.

Since 9/11, terrorism has gotten most of the top billing. But even in their wildest imaginations, terrorists couldn’t pull off the type of global catastrophes that await us if civilization doesn’t take effective action—and soon—to avert the kind of mass devastation, famines and wars that global climate change would inevitably trigger. Can we really afford another decade—or even half that—of political danc-ing around the issue? Despite a strong scientific consensus reached earlier this century that the warming is real and that human activity is playing a negative role, lately “feet a been a draggin’,” attention has been distracted and time “etches another notch”...

Perhaps today’s politics are just not up to a task this challenging. But more pointedly, it must be understood that to the extent terrorists force political leaders to take their eye off the globally warming “ball,” divert resources and further delay responsible countermeasures, these same terrorists will in fact worsen, or even cause, the effects of such a climate-change cataclysm. In the complex world in which we find ourselves, multiple challenging jolts must instead be dealt with at once. Terrorism should not be ignored, but it must be understood that any resource devoted and energy expended to it imply a manipulation of the system by forces

of terrorism. So at times, one could be playing directly into terrorism's strategic hand.

Besides being healthy for the body's vitamin D levels in limited amounts, it is well known that direct sunlight kills microbes. So it would seem that another devastating side-effect of global dimming could be the multiplication of terrestrial disease-causing organisms, which may, at some point, weigh heavily on the War on Disease. While this might prove helpful in the unlikely event that the so-called War on Terror is displaced by something akin to H.G. Wells' *The War of the Worlds*,²⁰ shouldn't we be the least bit concerned that the "marauders" that might be annihilated is us?

Ironically though, the clouds of global dimming may have a "silver iodide" lining stitched in the above-mentioned cancelatory effect: If we can reach far enough to get our arms around the problem, there is the prospect of balancing the ecosystem indefinitely to maintain a more stable environment. Based on concepts presented here, this implies slowly diminishing the deleterious powerhouse effects of this global-warming-dimming duo—but only in tandem balance. If the system can be properly managed, the calamity and certain death waiting out toward the extremes—far from the stable equilibrium-point desired by all life on the planet—can be avoided. Assuming this is all technically and politically feasible, it might not only permanently postpone all of the above global-doom scenarios, it may in turn tame severe storm and drought cycles as well. After all, larger thermal differences, which drive weather

phenomena, tend to imply more-powerful weather phenomena. So dampening the differences may well calm the storms.

Despite the magnitude of this global-dimming problem, how many citizens of the world are still “in the dark” on these new-found facts of nature’s system? It wasn’t until 2004 that global dimming first crossed my radar—years after its authenticity was confirmed, and almost two decades after it was initially discovered. In some respects, the societal system appears to be half-asleep—hypnotized—unable to accept and process new information, even such information vital to its own continued existence. The fact that such an unaware state prevails even in free societies—despite an age of near-instant Internet-news updates—is an ironic paradox. The reasons for such a dire trance-like state are explained in Part I and Part II.^[BQ] They apply to every human being and are believed at the root of the many diverse and sometimes pernicious fallacies that form a running subtheme across this book. Fallacies tend to cloud our judgment and often prevent the optimal, or even proper, management of the many vital systems existing all around us.

What is the result of all these “mind clouds”? In spite of the fast-paced technological advancement in our modern era, the world is facing problems that are both huge and complex: multidrug-resistant diseases and looming pandemics; dwindling natural resources produce soaring energy costs that spark almost predictable “oil wars”; globalization shockwaves and socioeconomic upset; increased

rates of poverty, illiteracy and crime; global-warming indifference and general environmental decline; weapons of mass destruction and suicide terrorist attacks... With increasing complexity and connectivity across the globe comes an epidemic of global problems that stretch from socio-politico-economics to disease and climate change. Welcome to the man-versus-world *Age of Global Challenges*. It is an age that emphasizes the imperative in rooting out the false and ringing in the true. And it is an age that emphasizes the vital necessity in clearing up these “clouds,” which we all tend to have our heads in. Do we want the world to be a colorful, bright and energetic place that thrives—a golden age of peace and prosperity, or do we want a lump of coal, hung dead-weight on Earth’s mantle? The answer is clear. And with the “smoggy skies” about our heads cleared, we may find what lays before our eyes is a veritable “mountain range” of new knowledge as alluded to in the Preface.

While the above covered some key points on the topic, be assured that this is not a book specifically about the dim and warm climate “cousins.” But such examples epitomize the types of large-scale, negative side-effects to expect from not observing general laws that drive the system—laws which are part of the subject matter of this book. Trampling these laws under foot is one thing, but not recognizing that they even exist prevents the strategic steps necessary to right the listing ship. Eventually, the bailouts can no longer match the rate at which our SS *Civilization* is taking on problems. That threats as dire as global dimming can, as

well, exist in any system crucial to our survival while never crossing the threshold into political thought only compounds the challenge to keep the system afloat.

Global upheaval from any systemic effects that might result from all this portend of a worldwide dark age. Based on new physical parameters of the universe derived in Part III, what seem to be more-predictable “dark-age” scenarios involving *hard* matter are forecast with mathematical precision.^[BR] Given the vagaries of geopolitics though, predictions involving *soft* matters are, of course, less precise despite what can be an accurate assessment at a broader level. But one future scenario might involve the formation of a global superstate. If governments and economies the world over become overwhelmed by one failure after another, this may appear to be the only rational solution. This strategy though would only usher in totalitarian control—the epitome of the “dimmed” dark-age state—thus further entrenching the problem, and further guaranteeing the “watery grave.” Another *possible* scenario appears to be well underway already and is described early on in Part I along with a mathematical calculation of the current trend and corresponding time frame; Part IV provides further details.^[BS]

—*John F. Kennedy*

The times are too grave, the challenge too urgent, and the stakes too high—to permit the customary passions of political debate. We are not here to curse the darkness, but to light the candle that can guide us through that darkness to a safe and sane future.²¹

The quotation above was originally spoken with regard to circumnavigating the “icebergs” of the mid-twentieth century. Not unlike passengers though on the fateful frigid morning of April 15, 1912, it is common for us today to figure that the great “steamship” will forever hold short of going full under—complex systems of ballast at work and all. So it is often difficult to see a real need to give up any partisan sands for the middle ground, even when the lives of many fellow citizens have long since been flung overboard into debt’s dark depths—the decks *below* steerage. It is far easier for us to remain on the high seas of, “I am my own vessel.” Just ask the captain of the *Costa Concordia* who was at the helm of *today’s* version of a fatal “jump ship” hull breach when the ocean liner was purposefully steered into shallow, unforgiving, and even “austere,” coastal waters where it unintentionally ran aground off Europe on Friday, January 13, 2012. This unlucky day, the region’s bond credit rating also sank in irony. If only the bridge of our “vessels” always exercised a “bipartisan ship.” Instead, “I am my own vessel” becomes “I am my own worst enemy,” and the system’s “bonds” lose their buoyancy.

As alluded above, it’s easy for us “passengers” to deny the obvious, especially where it may concern our own demise. Thoughts routinely on our minds include, “We’ll stay forever young,” “The system will live on and never die,” and “It will all iron out in the end.” Given the right set of moves, perhaps this is possible. But as we quietly reflect on this hundredth anniversary of yesterday’s “titanic” loss of

life, we can be confident that the engineers onboard that voyage were well apprised of the imminent reality—even if many passengers held firm to the ship’s overbilled unsinkability to their last breath. Ironically though, despite what has been a cliché since before *Titanic*’s time, it appears we’ve still not learned this lesson today: rich and poor alike—the known and the unknown, the knowledge heavy and the knowledge light, the knowledge of lightness and the knowledge of darkness—are all in the same *vincible* boat. So is that the end of it for us today too? Is there nothing more to be done than grab the nearest rail and wait for the stern’s last *glurrrrrp*?

Despite the tremendous mind-straining negativism implied by a dimming world, there is nevertheless a “positive psychology” to grasp onto for at least a brittle sanity: In darkness, it’s much easier to spotlight the system’s weak points. In distress, the mind is much more willing to tap wisdom and illuminate reasoning so that the “candlepower” generated points us toward the quoted “safe and sane future.” As dark as it is at the bottom of the sea, even the *Titanic* was found! Thus, in a sad irony, darkness actually offers civilization a chance to learn from past errors such that all life on planet Earth might improve for the future. But anything that hinders this difficult learning process from setting in forebodes of what should be self-explanatory at this point: a generalized *Theory of None*, alias the *Theory of Naught* or the *Theory of Nihilicity*—no civilization, no existence, *no thing*.

The word *annihilate* stems from the Latin *nihil*, which means, nothing.²² For obvious reasons, the words *nihility* and *annihilate* share a common heritage. Another word that hails from the Latin *nihil* is *nihilism*; this term implies the notion on various fronts that *nothing can be known* inasmuch as there is no firm basis for knowledge.²³ Relativism's lack of absolutism gives way to "nothingism." Nihilism could arise from a lack of objective, unifying laws that might explain things down to the roots and from the inside out. Conversely, the Theory of All implies what might be termed *allism*, a notion already alluded to in the prior subchapter meaning, *all can be known* and *all can be understood*.²⁴ Essentially, Bins Analytics is allism. The word is not meant to convey that we can see all immediately without work. However, it presupposes that, in time, such work can be done; it is not impossible. So ultimately, sense can be made of all. Given this new concept, one is prompted to look for and recognize the unifying set of laws otherwise missing from sight that act as a vehicle for true hard-and-fast knowledge, and in fact allow for its very existence. These laws form the missing "firm basis." I term this body of laws, the *Laws of All*. They are the subject of the next introductory subchapter.

NOTES

All endnotes are referred to in the text using superscripts that begin with a numerical character. Please refer to the Foreword regarding superscripts in the text that begin with a nonnumeric.

Endnotes: Chapter 1

1. *The American Heritage Dictionary*. “quintessence,” p. 1017.
 2. Weidner & Sells, p. 739.
 3. The need to determine the rudimentary *particles* does not preclude the existence of another rudimentary perspective based on *waves*. In physics, this wave view is enabled by *quantum mechanics*. To clarify the context of the cited source without overcomplicating the opening paragraph, it is noted here that the source does also refer to this other view based on waves and how it is able to provide a structural model for all the atomic elements, but that an understanding has still not been reached that broadly encompasses the myriad of subatomic, or elementary, particles.
 4. *Star Trek* saga.
 5. Carr & Weidner, p. 7, p. 70.
 6. *The New American Desk Encyclopedia*. “mechanics,” p. 801.
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7. Arno Allan Penzias and Robert Woodrow Wilson received the Nobel Prize in Physics in 1978 for discovering the cosmic microwave background radiation (CMBR) during their research at Bell Laboratories in Holmdel, New Jersey.
8. Overbye, p. 3.
9. Blumenhagen et al, p. 2.
10. “ether.”
11. Shakespeare. *Romeo and Juliet*, Act 2, Scene 2.
12. Einstein, Albert. This statement refers to the quote attributed to Einstein: “The only thing that interferes with my learning is my education.”
13. Freedom House. “Freedom of the Press 2009,” p. 2.
14. Freedom House. “New Study: Global Press Freedom...”
15. ACRF, p. 1.
16. ACRF, p. 1.
17. “Global Dimming,” p. 9.
18. “Global Dimming,” p. 7.
19. “Global Dimming,” pp. 9–11.
20. Wells. *The War of the Worlds*.
21. Kennedy, p. 2.
22. *The American Heritage Dictionary*. “annihilate,” p. 111.
23. *The American Heritage Dictionary*. “nihilism,” p. 842.
24. The word *allism* does not appear in the dictionary. To the extent that it already has meaning to some people though, the new definition provided should be considered one additional meaning.

Endnotes: Chapter 2

1. Lakoff, p. 3.
 2. Schwarz, John H.
 3. Schwarz, John H.
 4. Schwarz, Patricia, p. 1.
 5. Bins. “Imbalance aggravated,” p. 10.
-

Endnotes: Chapter 3

1. *The American Heritage Dictionary*. “Ockham’s razor,” p. 860.
 2. *The New American Desk Encyclopedia*. “Ockham or Occam, William of,” p. 914.
 3. *The American Heritage Dictionary*. “law of parsimony,” p. 718.
 4. Pössel. “electromagnetism.”
 5. Hill, p. 2:44.
 6. *The New American Desk Encyclopedia*. “relativity,” p. 1053.
 7. Carr & Weidner, pp. 240–241.
 8. Salaman, pp. 370–371.
 9. Einstein, Albert. Attrib.
 10. Einstein, Albert. Attrib.
 11. Einstein. “On the Method of...,” p. 165.
 12. Einstein, Albert. Attrib.
 13. Einstein. “On the Method of...,” p. 168.
 14. *The American Heritage Dictionary*. “system,” p. 1234.
 15. *The American Heritage Dictionary*. “system,” p. 1234.
 16. Newton, Isaac. Attrib.
 17. Newton, Isaac. Attrib.
 18. “Newton’s Dark Secrets,” p. 2.
 19. *Zero Effect*.
 20. Einstein, Albert. This statement refers to the quote attributed to Einstein: “The only thing that interferes with my learning is my education.”
 21. Newton, Isaac. Attrib.
 22. Newton, Isaac. Attrib.
 23. HealthDay.
 24. HealthDay.
 25. Gupta & Abedin.
 26. Gupta & Abedin.
 27. Newton. Preface.
 28. Newton. Preface.
 29. Newton. Preface.
 30. Einstein. “Geometry and Experience,” p. 9.
 31. Einstein. “Geometry and Experience,” p. 9.
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32. Einstein. "Geometry and Experience," pp. 9–10.
33. Hoffman, p. 1:126.
34. Newton. Preface.
35. Carr & Weidner, p. 240.
36. Bins. "Red Shift, Blue Shift."
37. Fernbach et al, pp. 939–945.

Endnotes: Chapter 4

1. Wells. *The Time Machine*.
2. Betts.
3. Betts.
4. Bureau of Labor Statistics. "Employment, Hours, and..."
5. Bureau of Labor Statistics. "Table B-1. Employees..." Annual averages of monthly, unadjusted employment values for 2015 were obtained from this source.
6. The employment percentages were calculated using the annual employment values.
7. Bureau of Labor Statistics. "Table B-1. Employees..." Annual averages of monthly, unadjusted employment values from 1939 to 2015 were obtained from this source.
8. The sector rankings were determined by examining the cited annual employment data. Each year in a given period was found to have the same rankings for the top-four sectors.
9. The table values in parentheses apply to the first year in each time period only. They refer to the cited employment data in millions for that year followed by its percentage of private nonfarm employment calculated from the cited annual employment data.
10. Although the November and December values used in the 2015 employment averages were marked preliminary in the data source cited for **TABLE 4.1** and **TABLE 4.2**, on May 5, 2016, the updated nonpreliminary values provided by the same source still showed leisure/hospitality employment leading healthcare employment by more than 43,600 jobs. Specifically, the updated

2015 averages showed leisure/hospitality at 15.128 million jobs and healthcare at 15.0798 million jobs, which is a difference of 48,200 jobs. On the same date, the same source showed 14.696 and 14.6765 million, respectively, for 2014, or a difference of 19,500 jobs.

11. Wells. *The Time Machine*.

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