

**THE DESIGN REVOLUTION:
ANSWERING THE TOUGHEST QUESTIONS
ABOUT INTELLIGENT DESIGN**

By William A. Dembski

MOTTO: People almost invariably arrive at their beliefs not on the basis of proof but on the basis of what they find attractive. —Blaise Pascal, *The Art of Persuasion*

DEDICATION: To John and Dorothy Van Gorp, my wife's parents, salt of the earth

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PREFACE

Ever since Thomas Kuhn published *The Structure of Scientific Revolutions* in the 1960s, just about every new idea in science has been touted as the latest scientific revolution. It's therefore not surprising that most scientific revolutions are overblown. I was part of one such overblown revolution in the late 1980s as a graduate student in Leo Kadanoff's physics lab at the University of Chicago. Chaos theory, also called nonlinear dynamics, was going to revolutionize science. A decade later, the promise and hype were largely spent. Yes, chaos theory offered some interesting insights into the interdependence and sensitivity to perturbation of physical processes. But after the revolution ran out of steam, our scientific conception of the world remained largely unchanged. Thanks to that experience, I take all declarations about the next big revolution in science with a stiff shot of skepticism.

Despite this, I grow progressively more convinced that intelligent design will revolutionize science and our conception of the world. To be sure, as a leading proponent of intelligent design, I have a certain stake in this matter. Nonetheless, there is good reason to think that intelligent design fits the bill as a full-scale scientific revolution. Indeed, it is challenging not merely the grand idol of evolutionary biology (Darwinism) but it is also changing the ground rules by which the natural sciences are conducted. Ever since Darwin, the natural sciences have resisted the idea that intelligent causes could play a substantive, empirically significant role in the natural world. Intelligent causes might emerge out of a blind evolutionary process but were in no way fundamental to the operation of the world. Intelligent design challenges this exclusion of design from the natural sciences. In so doing, it promises to remake science and the world.

Revolutions are messy affairs. They are also far from inevitable. For there to be a revolution, there must be revolutionaries willing to put their necks on the line. They must be willing to take the abuse, ridicule, and intimidation that the ruling elite can and will inflict. The ruling elite in this case are the dogmatic Darwinists and scientific naturalists. Rigidly committed to keeping intelligent causation outside the natural sciences, they misrepresent intelligent design at every step, charging that its critique of Darwinism (and naturalistic theories of evolution more

generally) is utterly misguided and groundless. Accordingly, the public is informed that intelligent design is religion masquerading as science or “Creationism in a Cheap Tuxedo” (the title of a newspaper headline). Moreover, the public is warned that intelligent design spells the death of science and that to teach intelligent design is intellectually (if not morally) in the same boat as teaching that the Holocaust didn’t happen.

The acceptance of radical ideas that challenge the status quo (and Darwinism is as status quo as it gets) typically runs through several stages. According to Arthur Schopenhauer, “All truth passes through three stages. First, it is ridiculed. Second, it is violently opposed. Third, it is accepted as being self-evident.” Similarly, evolutionist J. B. S. Haldane remarked, “Theories pass through four stages of acceptance: i) this is worthless nonsense; ii) this is an interesting, but perverse, point of view; iii) this is true, but quite unimportant; iv) I always said so.”

I like to flesh out Haldane’s four stages as follows. First the idea is regarded as *preposterous*—the ruling elite feel little threat and as much as possible ignore the challenge, but when pressed confidently assert that the idea is so absurd as not to merit consideration. Second it is regarded as *pernicious*—the ruling elite can no longer ignore the challenge and must take active measures to suppress it, now loudly proclaiming that the idea is confused, irrational, reprehensible, and even dangerous (thus adding a moral dimension to the debate). Third, it is regarded as *possible*—the ruling elite reluctantly admits that the idea is not entirely absurd but claims that at best it is of marginal interest; meanwhile, the mainstream realizes that the idea has far reaching consequences and is far more important than previously recognized. And fourth, it is regarded as *plausible*—a new status quo has emerged, with the ruling elite taking credit for the idea and the mainstream unable to imagine how people in times past could have thought otherwise. With intelligent design, we are now at the transition from stage two to stage three—from pernicious to possible. This is the hardest transition.

The aim of this book is to facilitate the transition from stage two to stage three by giving supporters of intelligent design the tools they need to counter the attacks by critics of intelligent design. It is also intended for all honest skeptics of would-be scientific revolutions, for this book

honors that healthy skepticism by fully and systematically responding to the toughest questions critics have raised concerning intelligent design. Readers will not need to grope about to find the questions or the answers. Nor will readers find tough questions missing in action.

In the past ten years, I've spoken at numerous colleges and universities on intelligent design, both in America and around the globe. I'm also regularly interviewed by the media about intelligent design. I have fielded an enormous variety of questions in both types of venues, and my work has drawn intense and extensive published criticism from the guardians of scientific orthodoxy. This book brings all those experiences, all those questions and their answers, together into one place. Think of this book as a handbook for replacing an outdated scientific paradigm (Darwinism) and giving a new scientific paradigm (intelligent design) room to breath, develop, and prosper.

In speaking on intelligent design, I receive three types of questions. Often a question simply asks for further clarification. Sometimes, however, a question indicates a stumbling block that needs to be removed before further insight is possible. And finally there is the question that is really not a question but an objection designed to “deep-six” intelligent design. I'll address all three types of questions in this book, but I'm particularly interested in the stumbling blocks. Intelligent design raises many stumbling blocks, especially for scientists and theologians. As much as possible, I want this book to remove those stumbling blocks. Clearing them away is for now the most important task in moving the design revolution forward.

Simply put, intelligent design is the science that studies signs of intelligence. Stated this way, intelligent design seems straightforward and unproblematic. Yet depending on where the intelligence makes itself evident, one may encounter fierce resistance to intelligent design. Archeologists attributing intelligent design to arrowheads or burial mounds is not controversial. But biologists attributing intelligent design to biological structures raises tremendous anxiety, not only in the scientific community but in the broader culture. Why is that?

C. S. Lewis, in his book *Miracles*, correctly placed the blame on naturalism. According to Lewis, naturalism is a toxin that pervades the air we breathe and an infection that has worked its

way into our bones. Naturalism is the view that the physical world is a self-contained system that works by blind, unbroken natural laws. Naturalism doesn't come right out and say there's nothing beyond nature. Rather, it says that nothing beyond nature could have any conceivable relevance to what happens in nature. Naturalism's answer to theism is not atheism but benign neglect. People are welcome to believe in God, though not a God who makes a difference in the natural order.

Theism (whether Christian, Jewish, or Muslim) holds that God by wisdom created the world. The origin of the world and its subsequent ordering thus results from the designing activity of an intelligent agent—God. Naturalism, on the other hand, allows no place for intelligent agency except at the end of a blind, purposeless material process. Within naturalism, any intelligence is an evolved intelligence. Moreover, the evolutionary process by which any such intelligence developed is itself blind and purposeless. As a consequence, naturalism makes intelligence not a basic creative force within nature but an evolutionary byproduct. In particular, humans (the natural objects best known to exhibit intelligence) are not the crown of creation, not the carefully designed outcome of a purposeful creator, and certainly not creatures made in the image of a benevolent God. Rather, humans are an accident of natural history.

Naturalism is clearly a temptation for science, and indeed many scientists have succumbed to that temptation. The temptation of naturalism is a neat and tidy world in which everything is completely understandable in terms of well-defined rules or mechanisms characterized by natural laws. As a consequence, naturalism holds out the hope that science will provide a theory of everything. Certainly this hope remains unfulfilled. The scandal of intelligent design is that it goes further, contending that this hope is unfulfillable. It therefore offends the hubris of naturalism. It says that intelligence is a fundamental aspect to the world and that any attempt to reduce intelligence to natural mechanisms cannot succeed. Naturalism wants nature to be an open book. But intelligences are not open books; they are writers of books, creators of novel information. They are free agents, and they can violate our fondest expectations.

There is an irony here. The naturalist's world, in which intelligence is not fundamental and the world is not designed, is supposedly a rational world because it proceeds by unbroken natural law—cause precedes effect with inviolable regularity. On the other hand, the design theorist's world, in which intelligence is fundamental and the world is designed, is supposedly not a rational world because intelligence can do things that are unexpected. To allow an unevolved intelligence a place in the world is, according to naturalism, to send the world into a tailspin. It is to exchange unbroken natural law for caprice and thereby destroy science. Thus, for the naturalist, the world is intelligible only if it starts off without intelligence and then evolves intelligence. If it starts out with intelligence and evolves intelligence because of a prior intelligence, then somehow the world becomes unintelligible.

The absurdity here is palpable. Only by means of our intelligence is science and our understanding of the world even possible. And yet the naturalist clings to this argument as a last and dying friend. This was brought home to me when I recently lectured at the University of Toronto. One biologist in the audience insisted I must take seriously that the world is two minutes old so long as I accept intelligent design. Presumably any creating intelligence could just as well create a deceptive world that appears old but was freshly created two minutes ago as create a verisimilitudinous world that appears old because it actually is old. That is certainly a logical possibility, but do we have any reason to believe it? Hundreds of years of successful scientific inquiry confirm a world that's structured to honestly yield up its secrets. If, further, the world reveals evidence of design, why should the mere possibility of a deceptive or capricious designer neutralize that evidence or lead us to disbelieve in the existence of a designer?

If we're going to take seriously the possibility of a designer misleading us, then we also need to take seriously the possibility of a natural world devoid of design misleading us. Imagine a natural world, devoid of design, where the laws of nature change radically from time to time, where time can back up and restart history on a different course, and where massive quantum fluctuations on a cosmic scale bring about galaxies that seem ancient but are in fact recent. It's not just designers that can be deceptive and capricious. The same is true of nature. Yet if science

is to be possible, we need, as a regulative principle, to assume that nature is honest and dependable. And if nature is the product of design, that means we need, again as a regulative principle, to assume that the designer made nature to be honest and dependable.

It follows that the two-minute-old universe argument against intelligent design is an exercise in irrelevance. It cuts as much against naturalism as it does against intelligent design. And it can't even touch the point at issue, namely, whether certain biological systems are designed. To decide that question we must consult not theology or anti-theology but the evidence of biology. If that evidence points us to design, then that's where we must go. What would be absurd is to say that the evidence points us to design but that we must nonetheless reject design because a deceptive designer might have designed the evidence to mislead us. That would be rejecting design by presupposing design.

When I pointed out to the Toronto biologist that Isaac Newton believed in intelligent design and didn't hold to a two-minute old universe, he instantly remarked that Newton didn't know about evolution. Poor Sir Isaac. Presumably Darwin would have made him an intellectually fulfilled atheist and erased any vestige of intelligent design from his science (intelligent design figures substantively in Newton's *Principia*—see, for instance, his General Scholium). Somehow science and our knowledge of the natural world is supposed to unravel once we allow that intelligence could be a fundamental principle operating in the universe.

The charge that intelligent design spells the end of science and rationality is without merit. If anything, the very comprehensibility of the world points to an intelligence behind the world. Indeed, science would be impossible if our intelligence were not adapted to the intelligibility of the world. The match between our intelligence and the intelligibility of the world is no accident. Nor can it properly be attributed to natural selection, which places a premium on survival and reproduction and has no stake in truth or conscious thought. Indeed, meat-puppet robots are just fine as the output of a Darwinian evolutionary process.

I remarked that scientists wedded to naturalism have a hard time accepting intelligent design. Surprisingly, theologians often have an even harder time accepting intelligent design.

Mainstream theology accepts the prevailing view that naturalism is a proper regulative principle for science—that science, to be science, must treat nature as a closed system of natural causes. Even if they are not metaphysical naturalists, mainstream theologians therefore tend to be methodological naturalists.

If this were their only reason for refusing intelligent design, then one would expect these theologians to hold methodological naturalism without ardor, as a mere working hypothesis. In fact, the idea that God could act not merely as some all-enveloping mushy influence but as an agent who makes a difference in space and time and takes responsibility for features of the world strikes many theologians as anathema. Often what's behind this distaste is an overdeveloped sensitivity to the evils of the world and a resulting compulsion to find an airtight theodicy. Theodicy attempts to justify the ways of God in the face of the world's evils. The easiest way to do this is not to let God get his hands dirty with the world. As a consequence, many theologians have a doubly hard time with intelligent design. Not only have they made their peace with a naturalistic construal of science, but they also have a theological need not to let divine action become too obvious or personal (e.g., if God acts here to do good, why doesn't He act there to prevent evil?).

This is not the book where I address the theodicy problem (I plan to address it in a future book on Genesis, theodicy, and the Christian doctrine of creation). Although theodicy is, to be sure, the thorniest problem facing theologians trying to make sense of intelligent design, it is not a problem for intelligent design per se. Intelligent design attempts to understand the evidence for intelligence in the natural world. The nature and, in particular, the moral characteristics of that intelligence constitute a separate inquiry. Intelligent design has theological implications, but it is not a theological enterprise. Theology does not own intelligent design. Intelligent design is not an evangelical Christian thing, or a generically Christian thing, or even a generically theistic thing. Anyone willing to set aside naturalistic prejudices and consider the possibility of evidence for intelligence in the natural world is a friend of intelligent design. In my experience such friends have included Buddhists, Hindus, New Age thinkers, Jungians, parapsychologists,

vitalists, Platonists, and honest agnostics, to name but a few. As a consequence, intelligent design's fate does not stand or fall with whether one can furnish a satisfying theodicy.

Even though I'll be bracketing the theodicy problem throughout this book, I will nonetheless address certain criticisms of intelligent design motivated by it. According to design critic Edward Oakes, intelligent design makes the task of theodicy impossible. Why is that? Because, he claims, intelligent design is wedded to a crude interventionist conception of divine action and to a mechanistic metaphysics of nature. Neither of these criticisms is accurate. Intelligent design is compatible with just about any form of teleological guidance. Its concern is not with how a designing intelligence acts but with whether its action is discernible. Intelligent design therefore does not require an interventionist conception of design. As for intelligent design requiring a mechanistic metaphysics of nature, within the context of theology this is just the flipside of an interventionist metaphysics of divine action. Indeed, for God to be an intervening meddler requires a world that finds divine intervention meddlesome. Intelligent design requires neither a meddling God nor a meddled world. For that matter, it doesn't even require that there be a God. I address Oakes's concerns in chapter 20 ("Nature's Receptivity to Information") and chapter 23 ("Interventionism").

According to Oakes, the task of a Christian theodicy is to "show that an omnipotent and benevolent God can coexist with evil in His finite creation." (*First Things*, April 2001) The key to resolving the theodicy problem for Oakes is Augustine's insight that God would not allow evil to exist unless God could bring good out of evil. Nevertheless, to speak of God bringing good out of evil could just be a fancy way of saying the end justifies the means. To avoid this charge, Oakes requires that the world be viewed "both as a totality and under the aegis of eschatology." In other words, God's bringing good out of evil must be judged not on the basis of isolated happenings but on the basis of the totality of happenings as they relate to God's ultimate purposes for the world. All of this is sound Christian theodicy as far as it goes. I challenge Oakes and fellow critics to show that intelligent design, as developed in this book, conflicts with such a theodicy.

The theodicy question aside, how God relates to the theory of intelligent design requires one further clarification. Creationists and naturalists alike worry that when design theorists refer to a “designer” or “designing intelligence,” and thus avoid explicitly referring to God, they are merely engaged in a rhetorical ploy. Accordingly, design theorists are saying what needs to be said to get skeptics to listen to their case. But as soon as skeptics buy their arguments for design, design theorists perform a bait-and-switch, identifying the designer with the God of religious faith. Whereas creationism is direct and forthright in its acknowledgment of God, intelligent design is thus said to be deceptive and sneaky.

This charge is unfounded. If design theorists are reticent about using the G-word, it has nothing to do with waiting for a more opportune time to slip it in. Design theorists do not bring up God for the simple reason that design-theoretic reasoning does not warrant bringing up God. Design-theoretic reasoning tells us that certain patterns exhibited in nature reliably point us to a designing intelligence. But there’s no inferential chain that leads from such finite design-conducting patterns in nature to the infinite personal transcendent creator God of the world’s major theistic faiths. Who is the designer? As a Christian I hold that the Christian God is the ultimate source of design behind the universe (though that leaves open that God works through secondary causes, including derived intelligences). But there’s no way for design inferences from physics or biology to reach that conclusion. Such inferences are compatible with Christian belief but do not entail it. Far from being coy or deceitful, when design theorists do not bring up God, it is because they are staying within the proper scope of their theory. Intelligent design is not creationism and it is not naturalism. Nor is it a compromise or synthesis of these positions. It simply follows the empirical evidence of design wherever it leads. Intelligent design is a third way.

When InterVarsity Press offered me a contract to write a sequel to my previous book *Intelligent Design: The Bridge Between Science and Theology*, I was happy to sign it. The previous book had done well for InterVarsity, and so its editors urged me to write a sequel dealing with the most pressing issues confronting intelligent design. The most pressing issue at

this time is to show that intelligent design is intellectually defensible, and specifically that the criticisms and questions raised against it are answerable. Think of this book, therefore, as an extended question and answer period that helps clear the path for the design revolution.

Each chapter of this book starts with a question and is followed by an answer. I've tried as much as possible to make the chapters self-contained. This has necessitated some repetition, but I've kept it to a minimum. Although the questions in this book can be taken up separately, I have placed them in a logical progression so that the book can be read coherently from start to finish. I attempt to answer questions as I would in an audience setting, that is, in my own words, in plain English, and thus without extensive supporting quotes or technical apparatus (the only notes and references occur in the text itself). To be sure, writing my answers out allows me to be more thorough than I would be in a conversational setting. Nevertheless, I have attempted to keep my answers to questions reasonably short. Chapters of many books tend to be around 6,000 to 8,000 word. Most of the answers in this book are around 2,000 words.

Often when I write or speak about intelligent design and then step back to reflect on the fierce resistance my work receives, I'm reminded of those Kafka stories where some hapless figure is tied up and smothered in endless bureaucratic red tape. The fundamental claim of intelligent design is straightforward and easily intelligible, namely, there are natural systems that cannot be adequately explained in terms of undirected natural forces and that exhibit features that in any other circumstance we would attribute to intelligence. That claim can be considered on its own merits. Let's look at some actual systems and do the analysis. This book is my attempt to cut through the red tape, psychological inertia, and mental cobwebs that prevent intelligent design from receiving fair consideration. In short, it is my attempt at some much needed house cleaning.

Even so, my hopes for this book would fall short if a clean house were its only outcome. Besides cleaning house, this book aspires to provide a powerful new vision of science and the world, one that people will want to pursue because they find it so attractive. At the end of his *Origin of Species*, Darwin remarked that a person armed with his theory need "no longer look at

an organic being as a savage looks at a ship, as at something wholly beyond his comprehension.” At the time, Darwin offered a powerful vision for understanding biology and therewith the world. That vision is now faltering, and a new vision is offering to replace it. The new vision teaches us to see organic being as a civilized person would see a ship, namely, as the product of intelligent design. Nevertheless, we are to see its design not just intuitively; rather, we are to see it objectively, systematically, and scientifically, as an engineer or architect who actually designed the ship. My hope is that this book will make such a new vision compelling.

For ideas to prosper, they must satisfy. In his *Art of Persuasion*, Blaise Pascal wrote, “People almost invariably arrive at their beliefs not on the basis of proof but on the basis of what they find attractive.” Pascal was not talking about people merely believing what they want to believe, as in wish-fulfillment. Rather, he was talking about people being swept away by attractive ideas that capture their heart and imagination. Darwinism has played that role for many intellectuals, providing a compelling vision of life and the world.

But visions endure only so long as they can be grounded in reality. The Darwinian vision of life is fast losing touch with reality, and specifically with the design that pervades the world at the biochemical level, a world about which Darwin knew nothing. As with all dying paradigms, Darwinism’s old guard will not, to paraphrase Dylan Thomas, go gently into that good night. Count on them to rage against the dying light. Notwithstanding, the Darwinian vision is on the way out, to be replaced by a new vision that captures our imagination and at the same time is grounded in reality. Intelligent design is that new vision.

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