

Introduction

Evolutionary ethics is a relatively new idea in philosophy. Some say evolutionary ethics is not at all possible. But the reason traditional philosophy is unable to resolve many issues of logic and reason is because ethics is conceived to be an idea of the mind and not something that is real in the physical world. Cybernetic ethics and a new type of evolutionary ethics are used here. Reasoning is based upon experience, observation and analysis not an idea of the mind. Ethical theory is at times obscure but even so it produces a new understanding of ethics as evidenced in the last chapter on the “The Practical Application of Evolutionary Ethics”. There you will see two examples which outline the solutions to two centuries old philosophical puzzles. These ideas are not trite. They represent an important milestone in the advancement of philosophical thinking. In one example there is the problem of first principles of ethics coexisting with the observable moral relativity that exists between geographical areas. How do the two moral ideas coexist in the same breath? The second philosophical puzzle

that is brought to light is that of the fact that for centuries philosophers have been unable to determine whether an act of rape is morally right or wrong. One might think there is something missing in the philosopher's logic for this to be true, but the new evolutionary ethics gives us an answer.

The book is slow to define the word cybernetic. But you must read the first half of the book to fully understand the definition. Parts of the preface can be skipped. Throughout the book it is shown how cybernetic science merges with ethical theory.

More correctly spoken cybernetic science merges with "the evolution of moral and ethical systems." to produce a new form of evolutionary ethics.

The Evolution of Ethics constructs a conceptual bridge between biology and human behavior. This is accomplished by examining the cultural and biological feedback systems that inspire the evolution of social rules. In theory, a cybernetic process is at the heart of developing ethical systems. This process occurs when biology and culture collide. The resulting conflict acts as a form of "informational feedback," telling people that there are serious problems that need to be resolved.

Conflict inspires human adaptation in a way that could extend the survival of the species. In this sense, the evolution of ethical systems is a response to the drive of the human species to survive. Additionally, a whole array of related, "rule systems," such as statutory laws, professional codes, customs, and even the rules of etiquette evolve to advance human adaptation.

Ethical systems are reasoned rules of conduct that are based on past experience, whereas moral laws (informally known) evolve over centuries of time and are many times influenced and expressed by human emotions.

Science and Cybernetic Ethics

Cybernetic ethics is a merging of science with ethics. This book presents a persuasive theory describing how ethics can (and should) be linked to science and mathematics. Here, there are objective moral standards that can be derived from the consequences of human actions. The evolution of ethical systems is shown as an “adaptation.” Humans adapt to survive, and they do so by creating standards and rules of behavior to stop vicious cycles of pain, suffering, and death. The more organized and efficient human activities become, the more certain the survival of the species becomes. The science of cybernetics best describes this process. Mathematician Norbert Wiener first developed cybernetic science in 1947.

In an evolutionary context, cybernetics means “informational feedback in dynamic systems” (such as a social system) that sustains or redirects behaviors. Cybernetic ethics as a fully developed science is expressed almost totally in the language of mathematics. This form of *statistical cybernetics* would employ statistics, cybernetics, and a science of human emotion to explain the evolution of ethical systems.

When the subject of ethics arises, reasonable people often ask, “Who’s to say what is right or wrong?” When ethical

development is viewed as a science, it is not so much who's to say an action is morally right or wrong, but rather, "What's to say an action is right or wrong?" The "what" is defined by inherent physical and psychological limitations within personal circumstances that make it impractical or imprudent to pursue certain behaviors, attitudes, or methods of reasoning. There are reasons why ethical systems evolve.

A major theme of this book is the integration of science and ethics. A few philosophers would think this task impossible. Evolutionary ethics is in its infancy, and at its core is evolution. Evolution is facilitated by adaptation, which is, in turn, moved by systemic feedback. Feedback is a cybernetic phenomenon usually discussed in purely mathematical terms. Evolution, adaptation, and feedback are all scientific; thus, one might assume that evolutionary ethics would bear some relation to science. Evolution is a dynamic phenomenon; the meta-ethical logic of philosophers is static. Morality is a dynamic phenomenon that evolves within societies, and static words of logic fall short of describing it adequately.

The first four chapters describe how systemic feedback arises in a culture. The focus here is on feedback. Not only does the book discuss feedback in an evolutionary ethics context but also in a cybernetic ethics context. In theory, cybernetic ethics is a math-based science that examines informational feedback in human systems.

In the first chapter, "The Evolution of Ethics," morality is seen being shaped by human pain, suffering, and death. Actions

bring consequences, and pain, suffering, and death act as systemic feedback, indicating to society that something is wrong and needs to be fixed. By contrast, human beings generally seek to maximize peace, prosperity, and productivity and to avoid pain, suffering, and death. In other words, society tends to change its behaviors and attitudes when afflicted by pain, suffering, and death; this is called adaptation. Quantification of feedback is theoretically possible in cybernetic ethics. The next chapter “Evolutionary Process” talks about social fission. The chapter on “Seminal Social Catalysts” shows how the evolutionary process is amplified. The next chapter is “The Evolution of Reason.” “Mathematical Concepts Implied in the Evolution of Ethical System” and “Cybernetic Ethics” introduce the idea of cybernetics. The next three chapters have been superseded by “Charting Human Behavior,” “Visceral Morality,” and “The Philosophical Implications of Cybernetic Ethics.” “Charting Human Emotion” is a theoretical piece that expands upon the idea of systemic feedback, introducing the concept of a societal memory. One can see this idea at work in the moral view of alcohol consumption. Memories of the effects of alcohol on human beings go back hundreds, if not thousands of years, shaping the prevailing moral view of alcohol. “The Practical Application of Evolutionary Ethics to Theoretical Problems” is the last chapter.

“Visceral Morality,” another facet of a theoretical moral science, is an interesting chapter. Here, visceral responses are seen as indicators of moral knowledge. These responses are

categorized in terms of reactivity. Reactivity relates to the intensity of a response to environmental stimuli. In theory, reactivity can be mathematically quantified. Five levels of emotional reactivity are cited.

“The Philosophical Implications of Cybernetic Ethics” is next which revisits systemic feedback. It is the first time the subjects of science and evolution are raised. Here, linguistic concepts find fault with the use of moral words, such as good, which meta-ethical logic deems indefinable. To the philosopher, good derives from logic, but experience says otherwise. The notion of good was preceded by the experience of it in the evolution of a language. Morality and ethics also have evolved from human experience. “Practical Aspects of Evolutionary Ethics” is the last chapter.

Philosophers have issues with the legitimacy of evolutionary ethics. They obstruct any meaningful progress on the subject with the is/ought dichotomy and the naturalistic fallacy. Here, one cannot logically move from “what is” to “what ought to be.” However, logic is not reason; they produce different results. If “what is,” is drinking alcohol and driving, and what you “ought to do” is not drive because a hundred years of traffic statistics say it’s dangerous, then you have violated the principal of the is/ought dichotomy. The static logic of the philosopher says one thing, and the dynamics of driving intoxicated say something else.

There may not be much to say about cybernetic ethics at this juncture. Nevertheless, with time and some investment of

energy by cybernetic mathematicians, the concept can evolve into a science.

Morality and ethics are an extension of biology and shows itself in the evolution of ethical systems to make human existence more stable and survivable. Living systems of all descriptions have evolved both cooperatively and competitively for more than a billion years. Since biological systems have been intertwined for so long, a change in one system can cause a change in many others. In theory, these changes disperse through the environment like waves generated by an object hitting the surface of a quiet pond.

Biological interrelatedness extends to human social systems as well, thereby imposing limits upon what people can reasonably do. Human beings are not at liberty to do as they wish because personal actions often inspire consequent reactions and sometimes overreactions that need regulating by way of laws and morals. This regulation affects individuals as well as large groups. An example of this might be seen in the careless use of fluorocarbons that thin the ozone layer, allowing harmful radiation to reach the earth and threaten the survival of all humans and organisms. Such a dangerous situation forces humans to choose between doing what they freely wish to do (risking pain, suffering, and death in the process) or setting limits on their behavior. The demonstrable effects of pollutants on people appears to force the formation of laws and enlightened moral attitudes that discourage the practice of releasing dangerous chemicals into the atmosphere. These kinds of laws cannot be said to have emerged from some

abstract philosophical theory of right and wrong. Instead, they appear to have evolved from real life situations in which human beings are forced to adapt to threatening circumstances in order to maintain their health and quality of life.

Morality is sometimes viewed in a negative context because it is associated with self-serving political and religious causes. In spite of this fact, the imposition of rules in the main does not lower the quality of human life. To the contrary, carefully laid out rules have the greater potential to improve its quality. Broadly imposing guidelines through the promotion of statutory laws as well as moral, manner, and customary rule systems, redirects social priorities in an efficient way. In turn, there is an increase in societal organization and efficiency that enhances cultural peace, prosperity, and productivity. Social evolution in this light acts as an extension of the same biological processes observed in lower organisms where it appears that tight hierarchical organization and efficient survival strategies further the life of many types of organisms.

In theory, nature provides human beings with the means to motivate themselves and create great things by giving them passion and sensitivity. At the same time, it appears to endow them with an extraordinary intelligence to limit the excesses of their emotions. Unfortunately, while people strive to be rational, their actions are still governed by strong emotions. When they respond to emotions that are a derivative of physiology, behavioral excesses inspiring a host of problems manifest themselves.

When emotions run high, there needs to be some mechanism present to keep passions from getting out of hand and causing harm to people or the societies they have spent so many years building. In much the same way that circuit breakers in a house prevent an overloaded circuit from melting the wires and causing a fire, moral restraints naturally arise and intervene as reasons (or a reason) to break up the vicious circles of conflict that passions can produce. The emergence of moral laws and sentiments, shaping the course of history, is therefore an extension of human physiology that stabilizes relationships so that people grow and prosper instead of conflicting to the point of extinction.