

The Dilemmas of Wonderland Decisions in the Age of Innovation

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Innovations create both opportunities and dilemmas. Innovations provide new and purportedly better opportunities, but because of their newness they are often more uncertain and potentially worse than existing options. There are new drugs, new energy sources, new foods, new manufacturing technologies, new toys and new pedagogical methods, new weapon systems, new home appliances and many other discoveries and inventions.

To use or not to use a new and promising but unfamiliar and hence uncertain innovation? That dilemma faces just about everybody. Furthermore, the paradigm of the innovation dilemma characterizes many situations even when a new technology is not actually involved. The dilemma arises from new attitudes, like individual responsibility for the global environment, or new social conceptions, like global allegiance and self-identity transcending all nation-states. These dilemmas have far-reaching implications for individuals, organizations, and society at large as they make decisions in the age of innovation. The uncritical belief in outcome-optimization — "more is better, so most is best" — pervades decision making in all domains, but is often irresponsible when facing the uncertainties of innovation. There is a great need for accessible conceptual tools for understanding and managing the dilemmas of innovation. This book offers a new and practical direction for a wide audience. The book discusses examples from many fields, including e-reading, bipolar disorder and pregnancy, disruptive technology in industry, stock markets, agricultural productivity and world hunger, military hardware, military intelligence, biological conservation, on-line learning, and more.

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