

# Encyclopedia of Science, Technology, and Ethics



## COMBINING SCIENCE AND ETHICS FOR A FRESH PERSPECTIVE

**e** Should governments and corporations be limited in their electronic monitoring of personal e-mails, library activities, and telephone calls – even in the name of national security? Does science have a moral obligation to resist political influence – even if it means stalling research?

Moral teachings and ethical questions about the creation and use of science and technology have been a part of religious and philosophical traditions from the earliest periods. Furthermore, science and technology have faced a series of ethical and political challenges throughout much of modern history, from the Enlightenment, through the Industrial Revolution, to the military and ideological conflicts that defined the 20th century. Today, the challenges are more global in scope. New fields of ethical reflection – computer ethics, environmental ethics, communication ethics, genethics – are emerging to deal with the world that science and technology have created.

The *Encyclopedia of Science, Technology, and Ethics* effectively addresses this breadth of ethical issues and is written for the non-specialist, but is rich enough to interest a range of users. Under the guidance of scholars specializing in philosophy, ethics, public policy, science and technology studies, culture, urban and environmental planning, communications, engineering, biology and management, this dynamic, illustrated encyclopedia collects the work of approximately 400 contributors from around the world – including various scientists, engineers and philosophers as well as individuals in business and government.

## GLOBAL COVERAGE WITH AN INCLUSIVE APPROACH

The *Encyclopedia of Science, Technology, and Ethics* considers both the professional ethics of science and technology, and the ethical and political issues raised by science and technology in an increasingly complex and global society. This broad coverage supports numerous academic courses and also provides practical knowledge and ideas for both professionals and general readers. The *Encyclopedia* embodies a historically and culturally inclusive approach, with entries on specific religions, linguistic and cultural perspectives, and philosophical positions. In addition to the entries, the *Encyclopedia of Science, Technology, and Ethics* features:

- Article specific bibliographies (many annotated) that point users to recent works from the United States and other parts of the world, as well as to proven classics in the field
- Approximately 350 illustrations enlivening and extending key elements being discussed
- Thoughtful cross-references and chronology facilitating the formation of meaningful connections
- And more

## FILLING A MUCH-NEEDED VOID

The first authoritative and comprehensive reference of its kind, *Encyclopedia of Science, Technology, and Ethics* transcends disciplinary and cultural boundaries, supporting curriculum and general research in science and technology studies, history, political science, economics, religion, philosophy, ethics, education, law, public policy and global affairs. Focusing on contemporary issues while providing ample historical and philosophical background, this four-volume set critically examines issues directly relevant to the 21st century world, including terrorism, freedom, democracy, authoritarianism, military ethics, the concept of the just war, building destruction and collapse, and biological and chemical weapons. Among the approximately 675 alphabetically arranged articles, are:

- Assisted Reproduction Technology
- Buddhism
- “Challenger” and “Columbia” Disasters
- Chernobyl
- Computer Viruses
- Democracy
- Development Ethics
- Digital Divide
- Entertainment
- Environmentalism
- Ethics of Care
- Fascism
- Feminist Ethics
- Gene Therapy
- Genethics
- Hinduism
- Human Rights
- Indigenous Peoples Perspectives
- Information Ethics
- Institute for Professional Engineers New Zealand
- International Relations
- Islam

- Japanese Perspectives
- Libertarianism
- Marx, Karl
- Neuroethics
- Nightingale, Florence
- Oppenheimer, J. Robert
- Police
- Rand, Ayn
- Robots and Robotics
- Royal Society
- Russian Perspectives
- Science, Technology, and Law
- Sex and Gender
- Sierra Club
- Skinner, B. F.
- Social Contract Theory
- Sustainability
- Video Games
- And more

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