Scientific/Enlightenment view of nature vs. the Romantic view

Newton's Laws of Motion

- I. Every object in a state of uniform motion tends to remain in that state of motion unless an external force is applied to it.
- II. The relationship between an object's mass m, its acceleration a, and the applied force F is F = ma.
- III. For every action there is an equal and opposite reaction.

A summary of what's found in Newton's Philosophianaturalis principia mathematica (1687)

William Blake on the Newtonian view of the Universe

I turn my eyes to the Schools & Universities of Europe
And there behold the Loom of Locke whose Woof rages dire
Washd by the Water-wheels of Newton. black the cloth
In heavy wreathes folds over every Nation; cruel Works
Of many Wheels I view, wheel without wheel, with cogs tyrannic
Moving by compulsion each other: not as those in Eden: which
Wheel within Wheel in freedom revolve in harmony & peace. (15.14–20, E159)

Jerusalem (1804-1820)

Scientific/Enlightenment view

Associated with Descartes, Kant, Hume, Newton

- 1. Universe as inert (passive). "Stuff" exists to be pushed around by external forces. It does not act spontaneously. Atomistic and/or mechanistic view (clockwork universe)
- 2. Mind as inert (sensations "dropped into the letterbox of the senses")
- 3. Universe *reduced* to shape, size and matter (primary properties). Secondary properties (colour, smell etc) are viewed as *less real* effects of primary properties
- 4. Reason emphasised over emotion. Reasoning is extended to all spheres of knowledge. To "know" nature means to have a rational understanding of its mechanisms.
- 5. Determinism (following from the causal laws found in science).

Romantic view

Associated with Blake, Coleridge and Wordsworth

- 1. Humans as the originators of actions (free will)
- 2. Mind is active. We bring things to experience. We are not "neutral" observers, but are participants instead.
- 3. Self realisation Humans are not just collections of particles but are beings that are developing over time.
- 4. Nature is not passive and inert, but is alive.
- 5. Feelings are given authority. To know nature may be to experience it *emotionally* and *aesthetically*.
- 6. Mystical experiences regarded as valid.

Deep Ecology can perhaps be seen as a revival of the Romantic view