

What analogies with physical sciences are applicable
to information transfer processes

R. T. Bottle

If we consider the various phenomena in information science several analogies with statistically based laws in the physical sciences become apparent. To what extent are the established mathematical models of the physical sciences useful?

Two physical phenomena which may be applicable are rate processes and transmission of radiation.

Analogies of information transfer pathways with these phenomena are discussed and some experimental data to fit the suggested models presented.

Three levels of information science

Maria Dembowska

Information constitutes an integral component of every field of human activity. It is possible to divide human activity into two main lines:

1. scientific activity/research, and
2. practical activity.

In accordance with this division, it is possible to distinguish:

1. scientific information, constituting a component of research activity, and
2. professional information, which is a component of practical professional activity.