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Electrokinetic phenomena are a family of several different effects that occur in heterogeneous fluids, or in porous bodies filled with fluid, or in a fast flow over a flat

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surface. The term heterogeneous here means a fluid containing particles. Particles can be solid, liquid or gas bubbles with sizes on the scale of a micrometer or nanometer. There is a common source of all these effects—the ...

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Biosystems engineers
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design solutions to technical problems that involve a critical biological component.

They apply quantitative skills to create products, processes, and systems that improve human existence. Working at the interface of engineering and biology, biosystems

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He conducted

groundbreaking

research in fluid

dynamics, transport

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phenomena, the kinetic theory of polymers and the rheology of polymeric liquids. He was a prolific textbook writer, including the seminal text Transport Phenomena , co-authored with UW-Madison chemical engineering colleagues Warren Stewart and

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Zhu, H Li, Usefulness
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and ...

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These
microphysiological
systems are of

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increasing interest to the biotech and pharmaceutical industries and have led to new research projects funded by industry.

Computational models aide with data interpretation and experimental design, and simulations can prove insight into

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biological mechanisms

in instances where

experiments are not

feasible.

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NASA and the U.S.

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Foundation (NSF)

have signed a

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understanding

affirming the

agencies' intent to

continue their

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partnership in

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Hazardous-waste
management, the
collection, treatment,
and disposal of waste
material that, when

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improperly handled, can cause substantial harm to human health and safety or to the environment. Hazardous wastes can take the form of solids, liquids, sludges, or contained gases, and they are generated primarily by chemical production, manufacturing, and

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other industrial
activities.

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The other major
impetus came from
the realization that the
most interesting and
difficult problems in
the quantitative

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disciplines, especially
physics, chemistry and

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computer science,

frequently lie in

biological phenomena

and applications.

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Systems theory has

influenced and

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spawned theory and
research development

in organizational

studies since the

1960s. Seeing a

parallel between

biological and human

social systems, systems

theory ...

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