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process. Each section
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by a specific

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research in Numerical
Analysis and
Scientific Computing,
in particular,
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algebra and
numerical methods
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Mathematical models applied to logic gates can be seen as a primary example of computational mathematics, and in many other ways, scientists also apply mathematical concepts to computer science.

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methodologies
include stochastic
methods and models,
symbolic
computation,
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phylogenetic
methods to model
the evolutionary
relationship between
tumor subclones, and
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With traditional
numerical methods
such as finite difference,
finite element and

spectral methods, we
can now routinely
solve PDEs in three
spatial dimensions
plus the temporal

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dimension. Most of the PDEs currently studied in computational mathematics belong to this category.

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and Computational
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mathematics involves
mathematical

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research in
mathematics as well
as in areas of science
where computing
plays a central and
essential role, and
emphasizes
algorithms,
numerical methods,
and symbolic
computations.

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Mathematical models arise in a wide variety of fields, including weather forecasting, engineering, business and finance, science, and medicine. The application of computer methods to

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simulate such models
has revolutionized
these fields and is
one of the most
significant
achievements of the
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module is to teach
you how neural
processes can be
understood in
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and how they can be analysed using mathematical and computational methods. Topics included: biophysical and reduced models of neurons; models of networks (eg Hopfield networks, ring-attractors and rate networks) models of synaptic plasticity and

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