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over easily to corresponding results for difference equations, while other results seem to be totally different in nature. Because of these reasons, the theory of dynamic equations is an

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active area of research. The time-scale calculus can be applied to any field in which dynamic processes are described by discrete or continuous time models. The calculus of time scales

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**has various applications
involving noncontinuous
domains such as certain
bug populations,
phytoremediation of metals,
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economics, and traffic problems. Boundary value problems on time scales have been extensively investigated in simulating processes and the phenomena subject to short-

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**displaying a wide variety of
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AUTHORS Svetlin G.

**Georgiev is a
mathematician who has
worked in various areas of
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**focuses on harmonic
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analysis, partial differential
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**and dynamic calculus on
time scales. Khaled Zennir
earned his PhD in
mathematics in 2013 from
Sidi Bel Abbès University,
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received his highest**

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**diploma in Habilitation in
mathematics from
Constantine University,
Algeria. He is currently
assistant professor at
Qassim University in the
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His research interests lie in the subjects of nonlinear hyperbolic partial differential equations: global existence, blowup, and long-time behavior. More than ever before,

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complicated mathematical procedures are integral to the success and advancement of technology, engineering, and even industrial production. Knowledge of and

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**and mathematics) student.
Three assumptions under
lie its structure: (1) All
students need a firm grasp
of the traditional
disciplines of ordinary and
partial differential**

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**equations, vector calculus
and linear algebra. (2) The
modern student must have
a strong foundation in
transform methods because
they provide the
mathematical basis for**

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**electrical and
communication studies. (3)
The biological revolution
requires an understanding
of stochastic (random)
processes. The chapter on
Complex Variables,**

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case of the wave equation,
Green's functions are beneficial
in describing diffraction and
waves. To aid readers in
developing practical skills for
finding Green's functions,
worked examples, problem sets,

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and illustrations from acoustics, applied mechanics, antennas, and the stability of fluids and plasmas are featured throughout the text. A new chapter on numerical methods closes the book. Included

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