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**Numerical
Solutions of
Boundary Value
Problems for
Ordinary
Differential
Equations covers**

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**the proceedings
of the 1974
Symposium by
the same title,
held at the
University of
Maryland,
Baltimore
Country Campus.
This symposium
aims to bring
together a**

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**number of
numerical
analysis involved
in research in
both theoretical
and practical
aspects of this
field. This text is
organized into
three parts
encompassing 15
chapters. Part I**

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reviews the initial and boundary value problems. Part II explores a large number of important results of both theoretical and practical nature of the field, including discussions of

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**the smooth and
local interpolant
with small K -th
derivative, the
occurrence and
solution of
boundary value
reaction systems,
the posteriori
error estimates,
and boundary
problem solvers**

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for first order systems based on deferred corrections. Part III highlights the practical applications of the boundary value problems, specifically a high-order finite-difference

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method for the solution of two-point boundary-value problems on a uniform mesh. This book will prove useful to mathematicians, engineers, and physicists.

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expanded. In particular, new material has been added to Sections 19 and 20. I am grateful to Viktor L. Ginzburg for his hard work on the translation and for writing Appendix F, and to Tomasz Zastawniak for

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his numerous suggestions. My special thanks go to the referee for his valuable remarks on the theory of stochastic processes. Finally, I would like to acknowledge the support of the AMS fSU Aid

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is apparently the

first in

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literature in

which a common

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areas of global

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***areas of
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student to
develop a solid
grasp of basic
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problems have
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created by the
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department at
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***magnetism,
quantum
mechanics, and
thermodynamics
and statistical
mechanics,
thereby serving
as a review of
material typically
covered in
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courses. Later
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*This compilation -
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*Virtually all self-
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book contains over*

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400 tables covering diffusion in binary and ternary aqueous solutions, in mixed solvents, and of non-electrolytes in various solvents. An important feature of the compilation is that all data have been critically examined and their

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*accuracy assessed.
Other features are
an introductory
chapter in which the
methods of
measurement are
reviewed; appendices
containing tables of
the limiting self-
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coefficients of ions;
and a list of*

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references to data which have been omitted but where information about the diffusing system is given. This is the only complete compilation of self-diffusion data in electrolyte solutions. It will appeal to electrochemists in

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general, particularly now that recent developments in the theory of transport processes require these data. It will also have a special appeal to electroanalytical chemists in that the ionic self-diffusion coefficient is an

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*important quantity
for the
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electrode reactions.
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in certain aqueous media will be governed by the tracer-diffusion coefficient.

This book is based on the contributions to the 17th International School of Materials Science and

Technology, entitled

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*Nonlinear Waves in
Solid State Physics.
This was held as a
NATO Advanced
Study Institute at the
Ettore Majorana
Centre in Erice,
Sicily between the st
th 1 and 15 July
1989, and attracted
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over 20 different countries. The book covers the fundamental properties of nonlinear waves in solid state materials, dealing with both theory and experiment. The aim is to emphasise the methods

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underpinning the important new developments in this area. The material is organised into subject areas that can broadly be classified into the following groups: the theory of nonlinear surface and guided waves in

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*self-focusing
magnetic and non-
magnetic materials;
nonlinear effects at
in terfaces;
nonlinear
acoustoelectronic
and surface acoustic
waves; Lagrangian
and Hamiltonian
formulations of
nonlinear problems;*

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nonlinear effects in optical fibres; resonance phenomena; and nonlinear integrated optics. The chapters have been grouped together according to these classifications as closely as possible, but it should be

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borne in mind that although there is much overlap of ideas, each chapter is essentially independent of the others. We would like to acknowledge the sponsorship of the NATO Scientific Affairs Division, the European

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