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The partial differential equations that govern scalar and vector fields are the very language used to model a variety of phenomena in solid mechanics, fluid flow, acoustics, heat transfer, electromagnetism and many others. A

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knowledge of the  
main equations and of  
the methods for  
analyzing them is  
therefore essential to  
every working  
physical scientist and  
engineer. Andrea  
Prosperetti draws on  
many years' research  
experience to produce  
a guide to a wide  
variety of methods,  
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Fourier-type series through to the theory of distributions and basic functional analysis. Theorems are stated precisely and their meaning explained, though proofs are mostly only sketched, with comments and examples being given more prominence. The book structure

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does not require sequential reading: each chapter is self-contained and users can fashion their own path through the material. Topics are first introduced in the context of applications, and later complemented by a more thorough presentation.

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sets, as well as the theoretical aspects of fields such as number theory, abstract algebra, and group theory.

The book comprises ten chapters, Each chapter contains several solved problems clarifying the introduced concepts. Some of



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the examples are taken from the recent literature and serve to illustrate the applications in various fields of engineering and science. At the end of each chapter, there are assignment problems with two levels of difficulty. A list of references is provided at the end of the book. This book is

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the product of a close collaboration between two mathematicians and an engineer. The engineer has been helpful in pinpointing the problems which engineering students encounter in books written by mathematicians.

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modeling,  
mathematical physics  
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Mathematics, Third Edition, prepares students for the more abstract mathematics courses that follow calculus. Appropriate for self-study or for use in the classroom, this text introduces students to proof techniques, analyzing proofs, and writing proofs of their own. Written in a clear,

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or reading proofs in  
their more advanced  
courses.

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students of  
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matrices, the  
(commutative) theory  
of elementary divisors  
and their application  
in systems of linear  
differential equations  
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understand the rigor,  
axiomatics, set  
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such as sets,  
mappings, and  
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distance, inner  
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