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this encyclopaedia of mathematics aims to be a reference work for all parts of mathematics it is a translation with updates and editorial comments of the soviet mathematical encyclopaedia published by soviet encyclopaedia publishing house in five volumes in 1977 1985 the annotated translation consists of ten volumes including a special index volume there are three kinds of articles in this encyclopaedia first of all

there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used the main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible on the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science engineers and teachers of mathematics these articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question they also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions the second kind of article of medium length contains more detailed concrete problems results and techniques

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this monograph provides the theoretical foundations needed for the construction of fundamental solutions and fundamental matrices of systems of linear partial differential equations many illustrative examples also show techniques for finding such solutions in terms of integrals particular attention is given to developing the fundamentals of distribution theory accompanied by calculations of fundamental solutions the main part of the book deals with existence theorems and uniqueness criteria the method of parameter integration the investigation of quasihyperbolic systems by means of fourier and laplace transforms and the representation of fundamental solutions of homogeneous elliptic operators with the help of abelian integrals in addition to rigorous distributional derivations and verifications of fundamental solutions the book also shows how to construct fundamental solutions matrices of many physically relevant operators systems in elasticity thermoelasticity hexagonal cubic elastodynamics for maxwell s system and others the book mainly addresses researchers and lecturers who work with partial differential equations however it also offers a valuable resource for students with a solid background in vector calculus complex analysis and functional

analysis

a massive transition of interest from solving linear partial differential equations to solving nonlinear ones has taken place during the last two or three decades the availability of better computers has often made numerical experimentations progress faster than the theoretical understanding of nonlinear partial differential equations the three most important nonlinear phenomena observed so far both experimentally and numerically and studied theoretically in connection with such equations have been the solitons shock waves and turbulence or chaotical processes in many ways these phenomena have presented increasing difficulties in the mentioned order in particular the latter two phenomena necessarily lead to nonclassical or generalized solutions for nonlinear partial differential equations

this booklet provides a very lucid and versatile introduction to the methods of linear partial differential equations it covers a wealth of very important material in a concise nevertheless very instructive manner and as such it may serve as an excellent guide to further more advanced and detailed reading in this area of both classical and contemporary mathematics zmathpartial differential equations arise in many branches of science and they vary in many ways no one method can be used to solve all of them and only a small percentage have been solved this book examines the general linear partial differential equation of arbitrary order m even this involves more methods than are known we ask a simple question when can an equation be solved and how many solutions does it have the answer is surprising even for equations with constant coefficients we begin with these equations first finding conditions which allow one to solve and obtain a finite number of solutions it is then shown how to obtain those solutions by analyzing the structure of the equation very carefully a substantial part of the book is devoted to this then we tackle the more difficult problem of considering equations with variable coefficients a large number of such equations are solved by comparing them to equations with constant coefficients in numerous applications in the sciences students and researchers are required to solve such equations in order to get the answers that they need in many cases the basic scientific theory requires the resulting partial differential equation to have a solution and one is required to know how many solutions exist this book deals with such situations

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