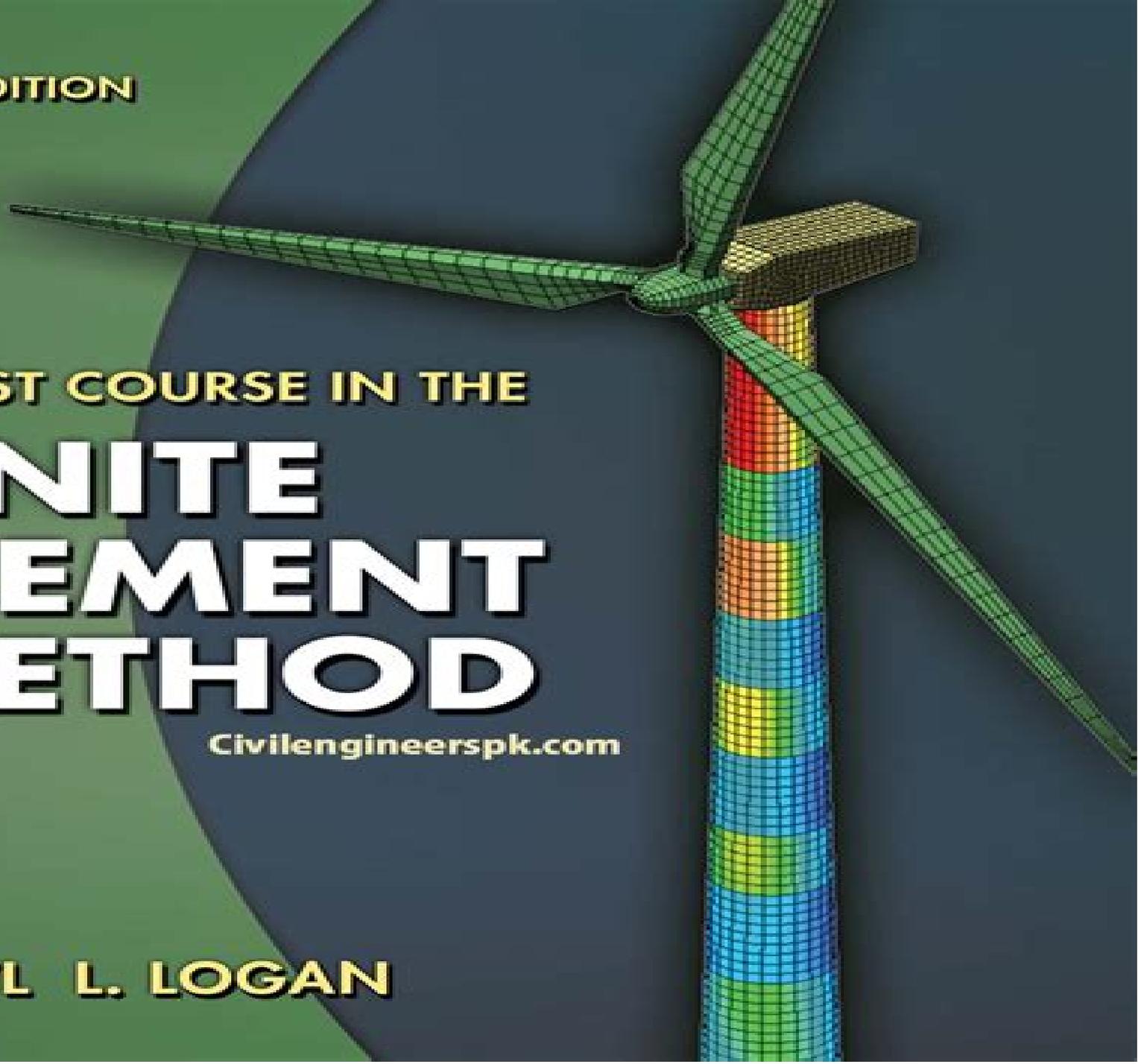


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The Discontinuous Enrichment Method (DEM) for Multi-scale Transport Problems Irina Kalashnikova,Irina Kalashnikova Tezaur,2011 A discontinuous enrichment method DEM for the efficient finite element solution of advection dominated transport problems in fluid mechanics whose solutions are known to possess multi scale features is developed Attention is focused specifically on the two dimensional 2D advection diffusion equation the usual scalar model for the Navier Stokes equations Following the basic DEM methodology 1 the usual Galerkin polynomial approximation is locally enriched by the free space solutions to the governing homogeneous partial differential equation PDE For the constant coefficient advection diffusion equation several families of free space solutions are derived These include a family of exponential functions that exhibit a steep gradient in some flow direction and a family of discontinuous polynomials A parametrization of the former class of functions with respect to an angle parameter is developed so as to enable the systematic design and implementation of DEM elements of arbitrary orders It is shown that the original constant coefficient methodology has a natural extension to variable coefficient advection diffusion problems For variable coefficient transport problems the approximation properties of DEM can be improved by augmenting locally the enrichment space with a higher order enrichment function that solves the governing PDE with the advection field $a \cdot x$ linearized to second order A space of Lagrange multipliers introduced at the element interfaces to enforce a weak continuity of the solution and related to the normal derivatives of the enrichment functions is developed The construction of several low and higher order DEM elements fitting this paradigm is discussed in detail Numerical results for several constant as well as variable coefficient advection diffusion benchmark problems reveal that these DEM elements outperform their standard Galerkin and stabilized Galerkin counterparts of comparable computational complexity by a large margin especially when the flow is advection dominated

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Finite Element Method Gouri Dhatt, Emmanuel Lefrançois, Gilbert Touzot, 2012-11-28 This book offers an in depth presentation of the finite element method aimed at engineers students and researchers in applied sciences The description of the method is presented in such a way as to be usable in any domain of application The level of mathematical expertise required is limited to differential and matrix calculus The various stages necessary for the implementation of the method are clearly identified with a chapter given over to each one approximation construction of the integral forms matrix organization solution of the algebraic systems and architecture of programs The final chapter lays the foundations for a general program written in Matlab which can be used to solve problems that are linear or otherwise stationary or transient presented in relation to applications stemming from the domains of structural mechanics fluid mechanics and heat transfer *Numerical Analysis with Algorithms and Programming* Santanu Saha Ray, 2018-09-03 Numerical Analysis with Algorithms and Programming is the first comprehensive textbook to provide detailed coverage of numerical methods their algorithms and corresponding computer programs It presents many techniques for the efficient numerical solution of problems in science and engineering Along with numerous worked out examples end of chapter exercises and Mathematica programs the book includes the standard algorithms for numerical computation Root finding for nonlinear equations Interpolation and approximation of functions by simpler computational building blocks such as polynomials and splines The solution of systems of linear equations and triangularization Approximation of functions and least square approximation Numerical differentiation and divided differences Numerical quadrature and integration Numerical solutions of ordinary differential equations ODEs and boundary value problems Numerical solution of partial differential equations PDEs The text develops students understanding of the construction of numerical algorithms and the applicability of the methods By thoroughly studying the algorithms students will discover how various methods provide accuracy efficiency scalability and stability for large scale systems **A First Course in the Finite Element Method, Enhanced, Loose-Leaf Version** Daryl L. Logan, 2022 **Engineering Problem-Solving 101: Time-Tested and Timeless Techniques : Time-Tested and Timeless Techniques** Robert Messler, 2012-09-12 MASTER UNIVERSAL ENGINEERING PROBLEM SOLVING TECHNIQUES Advance your engineering skills and become a capable confident problem solver by learning the wide array of tools processes and tactics employed in the field Going far beyond plug and chug solutions this multidisciplinary guide

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