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the most teachable book on incompressible flow now fully revised updated and expanded incompressible flow fourth edition is the updated and revised edition of ronald panton s classic text it continues a respected tradition of providing the most comprehensive coverage of the subject in an exceptionally clear unified and carefully paced introduction to advanced concepts in fluid mechanics beginning with basic principles this fourth edition patiently develops the math and physics leading to major theories throughout the book provides a unified presentation of physics mathematics and engineering applications liberally supplemented with helpful exercises and example problems revised to reflect students ready access to mathematical computer programs that have advanced features and are easy to use incompressible flow fourth edition includes several more exact solutions of the navier stokes equations classic style fortran programs for the hiemenz flow the

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a first course in fluid mechanics presenting the classical principles and supported by numerous analyses of fluid flow phenomena presents more material than can be covered in one term so the instructor has flexibility in choice of topics employs both the british gravitational system and the international system of units contains over 160 examples worked out in detail and over 1 200 homework problems

the purpose of this two volume textbook is to provide students of engineer ing science and applied mathematics with the specific techniques and the framework to develop skill in using them that have proven effective in the various branches of computational fluid dynamics cfd volume 1 de scribes both fundamental and general techniques that are relevant to all branches of fluid flow volume 2 provides specific techniques applicable to the different categories of engineering flow behaviour many of which are also appropriate to convective heat transfer an underlying theme of the text ist that the competing formulations which are suitable for computational fluid dynamics e g the finite differ ence finite element finite volume and spectral methods are closely related and can be interpreted as part of a unified structure classroom experience indicates that this approach assists considerably the student in acquiring a deeper understanding of the strengths and weaknesses of the alternative computational methods through the provision of 24 computer programs and associated exam ples and problems the present text is also suitable for established research workers and practitioners who wish to acquire computational skills without the benefit of formal instruction the text includes the most up to date techniques and is supported by more than 300 figures and 500 references

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