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[The 199-year-old De La Rue, one of the oldest businesses quoted on the London stock market, is based in Basingstoke, Hampshire, and operates in 20 locations around the world, employing 2,700 people.](#)

[Applied Mechanics and Civil Engineering VI includes the contributions to the 6th International Conference on Applied Mechanics and Civil Engineering \(AMCE 2016, Hong kong, China, 30-31 December 2016\), and showcases the challenging developments in the areas of applied mechanics, civil engineering and associated engineering practice. The book covers a wide variety of topics: – Applied mechanics and its applications in civil engineering; – Bridge engineering; – Underground engineering; – Structural safety and reliability; – Reinforced concrete \(RC\) structures; – Rock mechanics and rock engineering; – Geotechnical in-situ testing & monitoring; – New construction materials and applications; – Computational mechanics; – Natural hazards and risk, and – Water and hydraulic engineering. Applied Mechanics and Civil Engineering VI will appeal to professionals and academics involved in the above mentioned areas, and it is expected that the book will stimulate new ideas, methods and applications in ongoing civil engineering advances.](#)

[Practicing engineers designing civil engineering structures, and advanced students of civil engineering, require foundational knowledge and advanced analytical and empirical tools. Mechanics in Civil Engineering Structures presents the material needed by practicing engineers engaged in the design of civil engineering structures, and students of civil engineering. The book covers the fundamental principles of mechanics needed to understand the responses of structures to different types of load and provides the analytical and empirical tools for design. The title presents the mechanics of relevant structural elements—including columns, beams, frames, plates and shells—and the use of mechanical models for assessing design code application. Eleven chapters cover topics including stresses and strains; elastic beams and columns; inelastic and composite beams and columns; temperature and other kinematic loads; energy principles; stability and second-order effects for beams and columns; basics of vibration; indeterminate elastic-plastic structures; plates and shells. This book is an invaluable guide for civil engineers needing foundational background and advanced analytical and empirical tools for structural design. Includes 110 fully worked-out examples of important problems and 130 practice problems with an interaction solution manual \(http://hsz121.hsz.bme.hu/solutionmanual\). Presents the foundational material and advanced theory and method needed by civil engineers for structural design Provides the methodological and analytical tools needed to design civil engineering structures Details the mechanics of salient structural elements including columns, beams, frames, plates and shells Details mechanical models for assessing the applicability of design codes](#)

[This well-established text book fills the gap between the general texts on fluid mechanics and the highly specialised volumes on hydraulic engineering. It covers all aspects of hydraulic science normally dealt with in a civil engineering degree course and will be as useful to the engineer in practice as it is to the student and the teacher.](#)

[This book, in its third edition, continues to focus on the basics of civil engineering and engineering mechanics to provide students with a balanced and cohesive study of the two areas \(as needed by them in the beginning of their engineering education\). A basic undergraduate textbook for the first-year students of all branches of engineering, this book is specifically designed to conform to the syllabus of Visvesvaraya Technological University \(VTU\). Imparting the basic knowledge in various facets of civil engineering and the related engineering structures and infrastructure such as buildings, roads, highways, dams and bridges, the third edition covers the engineering mechanics portion in eleven chapters. Each chapter introduces the concepts to the reader, stepwise. Providing a wealth of practice examples, the book emphasizes the importance of building strong analytical skills. Practice problems, at the end of each chapter, give students an opportunity to absorb concepts and hone their problem-solving skills. The book comes with a companion CD containing the software developed using MS-Excel, to work out the problems on Forces, Centroid, Friction and Moment of Inertia. The use of this software will enable the students to understand the concepts in a relatively better way. NEW TO THIS EDITION • Introduces a chapter on Kinematics as per the revised Civil Engineering syllabus of VTU • Updates with the latest examination Question Papers, including the one held in the month of December 2013](#)

[An ideal textbook for civil and environmental, mechanical, and chemical engineers taking the required Introduction to Fluid Mechanics course, Fluid Mechanics for Civil and Environmental Engineers offers clear guidance and builds a firm real-world foundation using practical examples and problem sets. Each chapter begins with a statement of objectives, and includes practical examples to relate the theory to real-world engineering design challenges. The author places special emphasis on topics that are included in the Fundamentals of Engineering exam, and make the book more accessible by highlighting keywords and important concepts, including Mathcad algorithms, and providing chapter summaries of important concepts and equations.](#)

