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experience each question is accompanied by a detailed explanation helping you understand not just the correct answer but also the reasoning behind it these practice problems are designed to sharpen your analytical skills reinforce key concepts and eliminate guesswork ultimately giving you the edge you need on exam day passing the fe mechanical exam is the first step toward becoming a licensed professional engineer pe and with the right preparation you can achieve this milestone with confidence are you ready to take control of your future and prove that you have what it takes to succeed this book will guide you every step of the way

the numerical discrete element discontinuous deformation analysis dda method was developed by dr gen hua shi while he was working at the university of california berkeley under the supervision of prof richard e goodman in the late 1980s two dimensional dda was published in 1993 and three dimensional dda in 2001 since its publication dda has been verified validated and applied in numerous studies worldwide and is now considered a powerful and robust method to address both static and dynamic engineering problems in discontinuous rock masses in this book yossef h hatzor and guowei ma co chairs of the international society for rock mechanics isrm commission on dda join dr shi in authoring a monograph that presents the state of the art in dda research a comprehensive discussion of dda development since its publication is provided in chapter 1 followed by concise reviews of 2d and 3d dda in chapters 2 and 3 procedures to select geological and numerical input parameters for dda are discussed in chapter 4 and dda validation and verification is presented in chapter 5 applications of dda in underground and rock slope engineering projects are discussed in chapters 6 and 7 in chapter 8 the novel contact theory recently developed by dr shi is published in its complete form for the first time this book is published within the framework of the isrm book series and is the contribution of the isrm dda commission to the international rock mechanics community

the standard for mechanical engineering fe review includes 110 practice problems with full solutions set up to provide in depth analysis of likely fe exam problems this guide will get anyone ready for the mechanical fe exam topics covered include statics dynamics and fluid mechanics electricity magnetism materials properties and processing dynamics kinematics and vibrations mechanics of materials mechanical design and analysis heat transfer measurement and controls

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