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building and in a applications engages students as they master algebraic concepts, problem solving, and communication skills. Students develop sound mathematical skills by learning how to solve problems generated from realistic applications, instead of learning Page 49/70

techniques without conceptual understanding. Authors Mark Clark and Cynthia Anfinson have developed several key ideas to make concepts real and vivid for students. First, the authors place an emphasis on developing strong algebra skills that support the Page 50/70

applications, no enhancing student comprehension and developing their problem solving abilities. Second, applications are integrated throughout, drawing on realistic and numerically appropriate data to show students how to apply math and to understand why they Page 51/70

need to know it. These applications require students to think critically and develop the skills needed to explain and think about the meaning of their answers. Third, important concepts are developed as students progress through the course and overlapping

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projects like roads, bridges, dams, seaports, airports, industrial and residential buildings etc. on an innovative and interesting professional journey. It explains in minute detail, with examples of possible challenges and solutions for them, covering as many tasks as Page 58/70

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Designed for advanced engineering, physical science, and applied mathematics students, this Page 59/70

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