Digital Systems Engineering

William J. Dally, John W. Poulton

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What makes some computers slow? What makes some digital systems operate reliably for years while others fail mysteriously every few hours? Why do some systems dissipate kilowatts while others operate off batteries? These questions of speed, reliability, and power are all determined by the system-level electrical design of a digital system. Digital Systems Engineering presents a comprehensive treatment of these topics. It combines a rigorous development of the fundamental principles in each area with down-to-earth examples of circuits and methods that work in practice. The book not only can serve as an undergraduate textbook, filling the gap between circuit design and logic design, but also can help practicing digital designers keep up with the speed and power of modern integrated circuits. The techniques described in this book, which were once used only in supercomputers, are now essential to the correct and efficient operation of any type of digital system.

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