

Digital Systems Engineering

William J. Dally, John W. Poulton



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What makes some computers slow? Why do some digital systems operate reliably for years while others fail mysteriously every few hours? How can 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 real-world examples of circuits and methods. The book not only serves as an undergraduate textbook, filling the gap between circuit design and logic design, but can also help practising digital designers keep pace with the speed and power of modern integrated circuits. The techniques described in this book, once used only in supercomputers, are essential to the correct and efficient operation of any type of digital system.

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