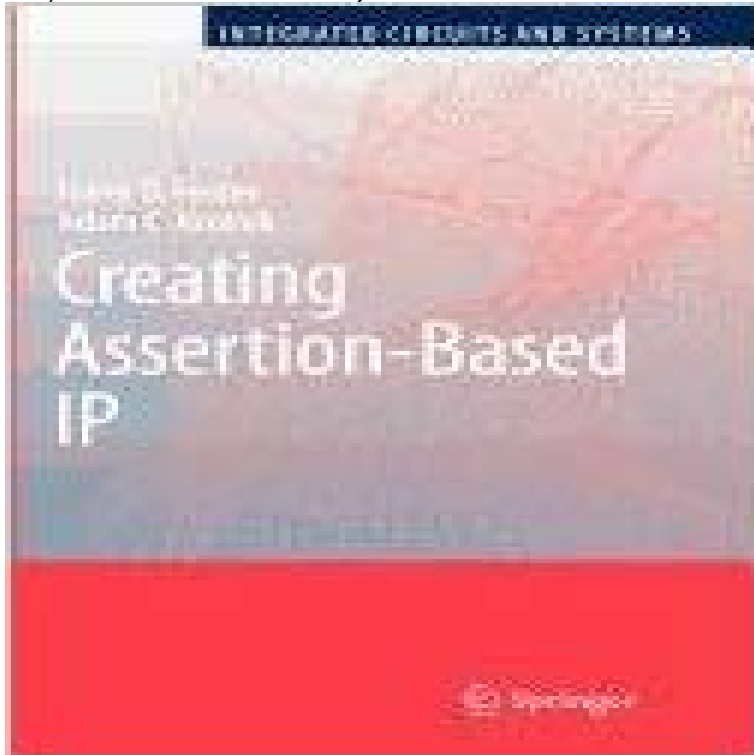


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The book provides an in-depth understanding of the fundamentals of superconducting electronics and the practical considerations for the fabrication of superconducting electronic structures. Additionally, it covers in detail the opportunities afforded by superconductivity for uniquely sensitive electronic devices and illustrates how these devices (in some cases employing high-temperature, ceramic superconductors) can be applied in analog and digital signal processing, laboratory instruments, biomagnetism, geophysics, nondestructive evaluation and radioastronomy. Improvements in cryocooler technology for application to cryoelectronics are also covered. This is the first book in several years to treat the fundamentals and applications of superconducting electronics in a comprehensive manner, and it is the very first book to consider the implications of high-temperature, ceramic superconductors for superconducting electronic devices. Not only does this new class of superconductors create new opportunities, but recently impressive milestones have been reached in superconducting analog and digital signal processing which promise to lead to a new generation of sensing, processing and computational systems. The 15 chapters are authored by acknowledged leaders in the fundamental science and in the applications of this increasingly active field, and many of the authors provide a timely assessment of the potential for devices and applications based upon ceramic-oxide superconductors or hybrid structures incorporating these new superconductors with other materials. The book takes the reader from a basic discussion of applicable (BCS and Ginzburg-Landau) theories and tunneling phenomena, through the structure and characteristics of Josephson devices and circuits, to applications that utilize the

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