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Research powers innovation and technoscientific advance, but it is due for a rethink, one consistent with its deeply holistic nature, requiring deeply human nurturing. Re-

search is a deeply human endeavor that must be nurtured to achieve its full potential. As with tending a garden, care must be taken to organize, plant, feed, and weed—and the manner in which this nurturing is done must be consistent with the nature of what is being nurtured. In *The Genesis of Technoscientific Revolutions*, Venkatesh Narayanamurti and Jeffrey Tsao propose a new and holistic system, a rethinking of the nature and nurturing of research. They share lessons from their vast research experience in the physical sciences and engineering, as well as from perspectives drawn from the history and philosophy of science and technology, research policy and management, and the evolutionary biological, complexity, physical, and economic sciences. Narayanamurti and Tsao argue that research is a recursive, reciprocal process at many levels: between science and technology; between questions and answer finding; and between the consolidation and challenging of conventional wisdom. These fundamental aspects of the nature of research should be reflected in how it is nurtured. To that end, Narayanamurti and Tsao propose aligning organization, funding, and governance with re-

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known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.

Many instrumentation engineers and scientists often deal with analog electronic issues when approaching delicate measurements. Even if off-the-shelf measuring solutions exist, comprehension of the analog behavior of the measuring system is often a necessity. This book provides a concise introduction to the main elements of a low frequency analog acquisition chain. It aims to be sufficiently general to provide an introduction, yet specific enough to guide the reader through some classical problems that may be encountered in the subject. Topics include sensors, conditioning circuits, differential and instrumentation amplifiers, active filters (mainly for anti-aliasing purposes) and analog to digital converters. A chapter is devoted to an introduction to noise and electronic compatibility. This work is intended for people with a general background in electronics and signal processing, who are looking for an introduction to classical electronic solutions employed in measuring instruments involving low frequency analog signal pro-

cessing.

This book introduces the foundations and fundamentals of electronic circuits. It broadly covers the subjects of circuit analysis, as well as analog and digital electronics. It features discussion of essential theorems required for simplifying complex circuits and illustrates their applications under different conditions. Also, in view of the emerging potential of Laplace transform method for solving electrical networks, a full chapter is devoted to the topic in the book. In addition, it covers the physics and technical aspects of semiconductor diodes and transistors, as well as discrete-time digital signals, logic gates, and combinational logic circuits. Each chapter is presented as complete as possible, without the reader having to refer to any other book or supplementary material. Featuring short self-assessment questions distributed throughout, along with a large number of solved examples, supporting illustrations, and chapter-end problems and solutions, this book is ideal for any physics undergraduate lecture course on electronic circuits. Its use of clear language and many real-world examples make it an es-

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Primarily intended for undergraduate engineering students of Electronics and Communication, Electronics and Electrical, Electronics and Instrumentation, Computer Science and Information Technology, this book will also be useful for the students of BCA, B.Sc. (Electronics and CS), M.Sc. (Electronics and CS) and MCA. Digital Design is a student-friendly textbook for learning digital electronic fundamentals and digital circuit design. It is suitable for both traditional design of digital circuits and HDL based digital design. This well organised text gives a comprehensive view of Boolean logic, logic gates and combinational circuits, synchronous and asynchro-

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