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The Art of Invention: The Creative Process of Discovery and Design

By Steven J. Paley

Prometheus Books, United States, 2010. Paperback. Book Condition: New. 226 x 150 mm. Language: English . Brand New Book. The lowly paperclip attracts little attention in our world of advanced gadgets and increasingly sophisticated technology. But to this veteran inventor and design engineer, it is a prime example of the qualities that often characterize a great invention--simplicity, elegance, and robustness--and it provided a lasting solution to a common problem. In this entertaining and insightful exploration of the process of invention, the author shows why these same three qualities are essential not only to the success of simple devices, but equally to complex inventions from computer chips to nuclear power plants. Whether you're an aspiring inventor or an experienced designer, the author's expertise, personal examples, and case studies offer detailed guidance on conceptualizing your ideas and turning them into reality. The author begins by exploring the essential aspects of creative thinking, from identifying a problem or need, which is often hidden in plain sight, to finding an inspired solution. He shows how ideas can come from a variety of sources such as the natural world, basic physical principles, life experience, or even chance observations. He examines how intuition and...



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