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Materials selection is a crucial factor in determining the cost, quality, and corrosion protection for every engineering project. The variety of increasingly durable materials and their combinations, coupled with the rise of new and more critical service requirements and the demand for lower costs, have expanded upon trial-and-error criteria into methodical, multi-dimensional approaches to materials selection.

An invaluable resource that analyzes materials from a microscopic perspective as well as a macroscopic standpoint, *New Materials, Processes, and Methods Technology* is a practical guide to matching and applying the material or materials with the right combination of properties in order to meet your design and service conditions. The book presents an update of existing materials and processes as well as newly developed materials that have been invented or changed by innovative techniques within the past decade. It details recent research, various analytical methods, key material and design considerations, fabrication methods, and developmental processes. Each section covers a material or material-family and the techniques required for practical applications.

Anticipating future trends and prospects, the book also examines the foundations to several innovative technologies, including the potential of tailor-made materials, various types of fuel cells, and the properties of FGMs in current and future metallic and non-metallic systems and models. In its final chapter, the book highlights processes that are poised for production as well as prospects still in experimentation and testing phases. *New Materials, Processes, and Methods Technology* provides today's scientists, technicians, and engineering departments devoted to resolving application requirements with performance properties using a well-executed material selection process.