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approach to safety—more suited to today's complex, sociotechnical, software-intensive world—based on modern systems thinking and systems theory. Revisiting and updating ideas pioneered by

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1950s aerospace engineers in their System Safety concept, and testing her new model extensively on real-world examples, Leveson has created a new approach to safety that is more effective, less expensive,

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and easier to use than current techniques. Arguing that traditional models of causality are inadequate, Leveson presents a new, extended model of causation (Systems-Theoretic Accident Model and Processes,

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or STAMP), then shows how the new model can be used to create techniques for system safety engineering, including accident analysis, hazard analysis, system design, safety in operations, and management of

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safety-critical systems. She applies the new techniques to real-world events including the friendly-fire loss of a U.S. Blackhawk helicopter in the first Gulf War; the Vioxx recall; the U.S. Navy SUBSAFE program;

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themselves as saviors of the poor; they lavishly reward “thought leaders” who redefine “change” in ways that preserve the status quo; and they constantly seek to do more good, but never less harm. Giridharadas asks hard questions: Why, for example, should our

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hover above, and it points toward an answer: Rather than rely on scraps from the winners, we must take on the grueling democratic work of building more robust, egalitarian institutions and truly changing the world—a call to action for elites and everyday citizens

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*systems and have
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and analyze various phenomenon in distribution system. This book includes sections that address new advancements in distribution systems by discussing possible impacts associated with active

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drawing on concepts not only from computer and information science but also from linguistics, logic, and philosophy. This book provides an introduction to the field of applied ontology

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that is of particular
relevance to biomedicine,
covering theoretical
components of ontologies,
best practices for ontology
design, and examples of
biomedical ontologies in use.

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After defining an ontology as a representation of the types of entities in a given domain, the book distinguishes between different kinds of ontologies and taxonomies, and shows how applied

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ontology draws on more traditional ideas from metaphysics. It presents the core features of the Basic Formal Ontology (BFO), now used by over one hundred ontology projects around the

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world, and offers examples of domain ontologies that utilize BFO. The book also describes Web Ontology Language (OWL), a common framework for Semantic Web technologies.

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Throughout, the book provides concrete recommendations for the design and construction of domain ontologies.

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