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engineering is an interdisciplinary field of engineering and engineering management that focuses on how to design, integrate, and manage complex systems over their life cycles. At its core,

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engineering utilizes systems thinking principles to

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Mechatronics is a synergic combination of mechanical engineering, electronic, control and computer

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Leveson presents a  
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model of causation  
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including accident analysis, hazard analysis, system design, safety in operations, and management of safety-critical systems. She applies the new techniques to real-world events including the friendly-fire loss of a U.S. Blackhawk

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dynamics. Although these are somewhat distinct fields, they are bound by common approaches in regard to systems. Whereas systems engineering seeks to apply a multidisciplinary, holistic approach to the development of systems, systems

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