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throughout in line with changes in regulations and standards. The section on electric, electronic and programmable safety systems has been expanded to reflect their

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increasing importance. The book now focuses on the harmonised standards (e.g. EN ISO 13849, IEC/EN 61131-2) which can be used by manufacturers to self-certify their machines for

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the European market without the need for third party examination, but also covers other relevant standards (e.g. IEC 62061). Many practical examples set the regulations in

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context and assist in the interpretation of the various standards. Safety with Machinery is essential reading for all engineers involved in machinery design and maintenance all

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over the world as every machine sold within or into the EU needs to conform to the harmonised standards. It also provides health and safety professionals, students and employee

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Machinery Condition Monitoring:**

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Principles and Practices introduces the practicing engineer to the techniques used to effectively detect and diagnose faults in machines. Providing the working principle behind the instruments, the important elements of machines as well as the technique to understand their conditions, this text

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radiography), and additional methods. The author includes relevant case studies from his own experience spanning over the past 20 years, and detailing practical fault diagnosis exercises involving various industries ranging from steel and cement plants to gas turbine driven frigates. While

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mathematics is kept to a minimum, he also provides worked examples and MATLAB® codes. This book contains 15 chapters and provides topical information that includes: A brief overview of the maintenance techniques Fundamentals of machinery vibration and rotor dynamics Basics of signal

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**processing and instrumentation, which
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