

ISO 10816-3 vibration standard		Machine group 4		Machine group 3		Machine group 2		Machine group 1	
		Integral driver		External driver		Motors 160 mm ≤ H ≤ 315 mm		Motors 315 mm ≤ H	
Velocity		Pumps > 15 kW Radial, axial, mixed flow				Medium sized machines 15 kW < P ≤ 300 kW		Large machines 300 kW < P < 50 MW	
mm/s rms	in/sec rms								
11	0.44				D				
7.1	0.28				C				
4.5	0.18				B				
3.5	0.11				A				
2.8	0.07				A				
2.3	0.04				A				
1.4	0.03				A				
0.71	0.02				A				
Foundation		Rigid	Flexible	Rigid	Flexible	Rigid	Flexible	Rigid	Flexible

<b>A</b>	New machine condition	<b>C</b>	Short-term operation allowable
<b>B</b>	Unlimited long-term operation allowable	<b>D</b>	Vibration causes damage

# Iso 10816

**Chao Zhang**



## **Iso 10816:**

**Vibration Damping, Control, and Design** Clarence W. de Silva, 2007-04-05 Reducing and controlling the level of vibration in a mechanical system leads to an improved work environment and product quality reduced noise more economical operation and longer equipment life Adequate design is essential for reducing vibrations while damping and control methods help further reduce and manipulate vibrations when design strat

**The Language of Machines: Everything About Vibration Analysis** Fahri YILMAZ, This book is designed as a comprehensive resource for both engineers with field experience and interested engineering students While it covers advanced engineering topics no unfamiliar concepts are left unexplained The goal is to provide in depth technical information on vibration analysis while simultaneously providing a clear and fluent language that allows the reader to grasp the fundamentals of the subject From an engineer s perspective it may not always be possible to search for new literature or gather information from scattered sources in the daily routine of work this book will fill an important gap by combining all the necessary concepts and modern approaches to vibration analysis in one resource For engineering students the book aims to lay a solid academic foundation while demonstrating the real world application of theory through industrial application examples This will allow students to better understand how the theoretical knowledge they learn applies in practice The book encompasses technical topics that extend to graduate level but the language is carefully designed to make complex mathematical expressions and engineering terminology understandable Each chapter defines critical terms and concepts are supported with visuals and examples when necessary Throughout the book real world industrial case studies are included aiming to provide readers with not only theoretical knowledge but also practical experience Examples include how a generator failure at a power plant was diagnosed step by step by analyzing vibration data or how a maintenance plan was developed by analyzing vibration trends at a petrochemical plant Another important contribution of this book is its systematic compilation of current information scattered throughout the literature Vibration analysis and condition monitoring technologies are rapidly evolving in particular digital transformation the IIoT Industrial Internet of Things and machine learning based analysis methods are becoming increasingly integrated into industry The book will provide the reader with a perspective on future applications by addressing these new generation approaches as well as classical vibration analysis methods Designed with a balance between academic integrity and industrial practice the content is suitable for use both as a university textbook and as a reference guide for field engineers Furthermore summary points and references at the end of each chapter will direct readers to resources for more in depth research on topics of interest In conclusion Vibration Analysis This book on the subject will be a comprehensive guide from theory to practice for engineers and engineering students Upon completion the reader will understand how to interpret vibration data identify different types of failures from vibration patterns and implement an effective vibration based maintenance program in their own facility The subsequent chapters of the book advance these objectives

**Machinery**

**Condition Monitoring** Amiya Ranjan Mohanty,2014-12-22 Find the Fault in the Machines Drawing on the author's more than two decades of experience with machinery condition monitoring and consulting for industries in India and abroad Machinery Condition Monitoring 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 presents every available method of machine fault detection occurring in machines in general and rotating machines in particular A Single Source Solution for Practice Machinery Conditioning Monitoring Since vibration is one of the most widely used fault detection techniques the book offers an assessment of vibration analysis and rotor dynamics It also covers the techniques of wear and debris analysis and motor current signature analysis to detect faults in rotating mechanical systems as well as thermography the nondestructive test NDT techniques ultrasonics and 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 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 processing and instrumentation which are essential for monitoring the health of machines Requirements of vibration monitoring and noise monitoring Electrical machinery faults Thermography for condition monitoring Techniques of wear debris analysis and some of the nondestructive test NDT techniques for condition monitoring like ultrasonics and radiography Machine tool condition monitoring Engineering failure analysis Several case studies mostly on failure analysis from the author's consulting experience Machinery Condition Monitoring Principles and Practices presents the latest techniques in fault diagnosis and prognosis provides many real life practical examples and empowers you to diagnose the faults in machines all on your own

**Asset Maintenance Management** Alan Wilson,2002 Edited by an expert in the maintenance field this wide ranging reference includes in depth contributions from leading professionals consultants university instructors and experts in specific maintenance techniques It provides companies with the methods strategies and practices that will help efficiently and effectively direct and shape their asset management operations

*Vibration-Based Condition Monitoring of Wind Turbines* Tomasz Barszcz,2018-12-04 This book describes in detail different types of vibration signals and the signal processing methods including signal resampling and signal envelope used for condition monitoring of drivetrains A special emphasis is placed on wind turbines and on the fact that they work in highly varying operational conditions The core of the book is devoted to cutting edge methods used to validate and process vibration data in these conditions Key case studies where advanced signal processing methods are used to detect failures of gearboxes and bearings of wind turbines are described and discussed in detail Vibration sensors SCADA Supervisory Control and Data

Acquisition portable data analyzers and online condition monitoring systems are also covered This book offers a timely guide to both researchers and professionals working with wind turbines but also other machines and to graduate students willing to extend their knowledge in the field of vibration analysis

*ISO Catalogue* International Organization for Standardization,2007

**Encyclopedia of Vibration: R-Z**,2002

*ISO 10816-1 ("technically equivalent" to BS 7854-1, 1996) : Mechanical vibration - evaluation of machine vibration by measurements on non-rotating parts, Part 1 General guidelines* ISO.,1995

*Catalogue* International Organization for Standardization,2008

**Operation and Diagnostics of Machines and Production Systems Operational States II** Stanislav Fabian,Tibor Krenický,2014-08-18 Special topic volume with invited peer reviewed papers only

*ACI Manual of Concrete Practice* American Concrete Institute,2002

**Encyclopedia of Vibration: F-P** ,2002

**The Shock and Vibration Digest** ,2005

*Catalogue* Bureau of Indian Standards,2010

**ISO Bulletin** ,2000-02

*The Journal of the Acoustical Society of America* Acoustical Society of America,2007

**Standards Monthly Additions** ,2004-08

*ASME Engineer's Data Book* Clifford Matthews,2005 This greatly expanded second edition of this popular and handy reference book includes over 100 new pages including extensive coverage of Section VIII of the ASME Pressure Vessel Code Divided into 22 sections this pocket sized volume is an exhaustive quick reference of up to date engineering data and rules It includes essential mathematics units engineering design processes and principles basic mechanical design motion mechanics of materials material failure thermodynamics fluid mechanics fluid equipment vessel codes and standards materials machine elements design and production tools project engineering computer aided engineering welding non destructive examination corrosion surface protection metallurgical terms and engineering associations and organizations

**Dynamics** J. R. Maguire,T. A. Wyatt,Tom Wyatt,1999 Structures have become lighter and members more slender thus increasing the amplitudes of vibration This guide provides the basic theory and considers the acceptance criteria where dynamic loading is significant in design

*IMechE Engineers' Databook* Clifford Matthews,2004-10-22 This book provides a concise and useful source of up to date essential information for the student or practising engineer

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