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Autore	KEMPNER, Jack J.
Titolo	The Statement of application of funds in modern corporate accounting practice / Jack J. Kempner
Pubbl/distr/stampa	[S.l.] : The Ohio State University, 1956
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Altri autori (Persone)	JonesChris GautierPierre-Etienne
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Nota di contenuto	Front Cover; RAILWAY NOISE AND VIBRATION; Copyright Page; Contents; Preface; Acknowledgements; Copyright Acknowledgements; CHAPTER 1 Introduction; 1.1 The need for noise and vibration control innbsprailways; 1.2 The need for a systematic approach to noise control; 1.3 Sources of railway noise and vibration; 1.4 Structure of the book; References; CHAPTER 2 Introduction to Rolling Noise; 2.1 The source of rolling noise; 2.2 Speed and roughness dependence; 2.3 Frequency content; 2.4 Is it the wheel or is it the rail?; 2.5 Overview of the generation mechanism; References CHAPTER 3 Track Vibration3.1 Introduction; 3.2 SIMPLE BEAM MODELS; 3.3 Beam on two-layer support; 3.4 Timoshenko beam model; 3.5 Discretely supported track models; 3.6 Rail cross-section deformation; 3.7 Sleeper vibration; 3.8 Rail pad stiffness; References; CHAPTER 4 Wheel Vibration; 4.1 Introduction; 4.2 Wheel modes of vibration; 4.3 Frequency response; 4.4 Simple models for wheel mobility; 4.5 Effects of wheel rotation; 4.6 Experimental results; 4.7 Noise from bogie and vehicle superstructure; References; CHAPTER 5 Wheel/Rail Interaction and Excitation by Roughness; 5.1 Introduction 5.2 Wheel/rail interaction model5.3 Contact zone mobilities; 5.4 Contact filter effect; 5.5 Measurement of roughness; 5.6 Processing of roughness data; 5.7 Other excitation mechanisms; References; CHAPTER 6 Sound Radiation from Wheels and Track; 6.1 Introduction; 6.2 Simple models for sound radiation; 6.3 Wheel radiation; 6.4 Rail radiation; 6.5 Sleeper radiation; 6.6 Sound pressure levels during train passage; 6.7 Validation measurements; References; CHAPTER 7 Mitigation Measures for Rolling Noise; 7.1 Introduction; 7.2 Prototype track development; 7.3 Wheel shape and damping 7.4 Track response and radiation7.5 Shielding measures; 7.6 Combinations of measures; References; CHAPTER 8 Aerodynamic Noiselowast; 8.1 Introduction; 8.2 BASIC PRINCIPLES; 8.3 Experimental techniques; 8.4 Numerical techniques; 8.5 Reduction of aerodynamic noise; 8.6 Concluding remarks; References; CHAPTER 9 Curve Squeal Noise; 9.1 Introduction; 9.2 Curving behaviour; 9.3 Creep forces; 9.4 Models for frictional excitation; 9.5 Models for squeal; 9.6 Mitigation measures for curve squeal noise; 9.7 Case study: UK Sprinter fleet; References; CHAPTER 10 Impact Noise; 10.1 Introduction 10.2 The effect of non-linearities on rolling noise10.3 Impact noise due to wheel flats; 10.4 Impact noise due to rail joints; 10.5 Discussion; References; CHAPTER 11 Bridge Noise; 11.1 Introduction; 11.2 The excitation of bridge noise; 11.3 Power input to the bridge; 11.4 Vibration transmission and radiation of sound; 11.5 Reducing bridge noise; 11.6 Case studies; References; CHAPTER 12 Low Frequency Ground Vibrationlowast; 12.1 Different types of railway-induced vibration; 12.2 Assessment of vibration; 12.3 Surface vibration propagation; 12.4 Excitation of vibration by a train 12.5 Examples of calculated vibration from trains
Sommario/riassunto	Railways are an environmentally friendly means of transport well suited to modern society. However, noise and vibration are key obstacles to further development of the railway networks for high-speed intercity traffic, for freight and for suburban metros and light-rail. All too often noise problems are dealt with inefficiently due to lack of understanding of the problem.This book brings together coverage of the theory of

railway noise and vibration with practical applications of noise control technology at source to solve noise and vibration problems from railways. The author has wide