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	Autore	OESTEREICH, Bernd
	Titolo	Developing software with UML : object-oriented analysis and design in practice / Bernd Oestereich
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2.	Record Nr.	UNINA9910459854803321
	Autore	Geradin Michel <1945->
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Cover; Title Page; Copyright; Contents; Foreword; Preface; Introduction; Suggested Bibliography; List of main symbols and definitions; Chapter 1 Analytical Dynamics of Discrete Systems; Definitions; 1.1 Principle of virtual work for a particle; 1.1.1 Nonconstrained particle; 1.1.2 Constrained particle; 1.2 Extension to a system of particles; 1.2.1 Virtual work principle for N particles; 1.2.2 The kinematic constraints; 1.2.3 Concept of generalized displacements; 1.3 Hamilton's principle for conservative systems and Lagrange equations 1.3.1 Structure of kinetic energy and classification of inertia forces 1.3.2 Energy conservation in a system with scleronomic constraints; 1.3.3 Classification of generalized forces; 1.4 Lagrange equations in the general case; 1.5 Lagrange equations for impulsive loading; 1.5.1 Impulsive loading of a mass particle; 1.5.2 Impulsive loading for a system of particles; 1.6 Dynamics of constrained systems; 1.7 Exercises; 1.7.1 Solved exercises; 1.7.2 Selected exercises; References; Chapter 2 Undamped Vibrations of n-Degree-of-Freedom Systems; Definitions 2.1 Linear vibrations about an equilibrium configuration 2.1.1 Vibrations about a stable equilibrium position; 2.1.2 Free vibrations about an equilibrium configuration corresponding to steady motion; 2.1.3 Vibrations about a neutrally stable equilibrium position; 2.2 Normal modes of vibration; 2.2.1 Systems with a stable equilibrium configuration; 2.2.2 Systems with a neutrally stable equilibrium position; 2.3 Orthogonality of vibration eigenmodes; 2.3.1 Orthogonality of elastic modes with distinct frequencies; 2.3.2 Degeneracy theorem and generalized orthogonality relationships 2.3.3 Orthogonality relationships including rigid-body modes 2.4 Vector and matrix spectral expansions using eigenmodes; 2.5 Free vibrations induced by nonzero initial conditions; 2.5.1 Systems with a stable equilibrium position; 2.5.2 Systems with neutrally stable equilibrium position; 2.6 Response to applied forces: forced harmonic response; 2.6.1 Harmonic response, impedance and admittance matrices; 2.6.2 Mode superposition and spectral expansion of the admittance matrix; 2.6.3 Statically exact expansion of the admittance matrix; 2.6.4 Pseudo-resonance and resonance 2.6.5 Normal excitation modes 2.7 Response to applied forces: response in the time domain; 2.7.1 Mode superposition and normal equations; 2.7.2 Impulse response and time integration of the normal equations; 2.7.3 Step response and time integration of the normal equations; 2.7.4 Direct integration of the transient response; 2.8 Modal approximations of dynamic responses; 2.8.1 Response truncation and mode displacement method; 2.8.2 Mode acceleration method; 2.8.3 Mode acceleration and model reduction on selected coordinates; 2.9 Response to support motion 2.9.1 Motion imposed to a subset of degrees of freedom

"Mechanical Vibrations: Theory and Application to Structural Dynamics, Third Edition is a comprehensively updated and reorganized new edition of the popular textbook. It presents the theory of vibrations in the context of structural analysis and covers applications in mechanical and aerospace engineering. This new edition now includes the fundamentals of signal processing and identification technique, and develops the concepts of dynamic reduction and substructuring. A more detailed discussion of the concept of eigensolution sensitivity to physical parameters is included and the fundamental cases of wave propagation in solids are considered. It also includes a chapter on the finite element method for one-dimensional structures. This new edition contains coherent and uniform notation and now includes solved exercises at the end of each chapter"--

3. Record Nr.	UNINA9910482466003321
Autore	Bauderon Brice <approximately 1540-1623.>
Titolo	Paraphrase sur la pharmacopœe ... / Revëue corrigëe et augmentëe par l'auteur mesme [[electronic resource]]
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Lingua di pubblicazione	Francese
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