1. Record Nr. UNISA996394614703316

Autore	Hough Roger
Titolo	The contents of the history of the five book's [sic] of Moses [[electronic resource]] : namely, Genesis. Exodus. Leviticus. Numbers. Deuteronomie. Collected and gathered in so many verses as there is chapters in each book very necessary and profitable for education of youth, & acquainting them so far with the Scripture. To which is added a considering-glass or contemplation, or spirituall poem upon the consideration thereof. By Roger Hough
Pubbl/distr/stampa	London, : printed for T. Passenger, at the three Bibles on London-bridge, 1670
Descrizione fisica	[4], 43, [1] p. : ill
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	The words "Genesis. .. Deuteronomie." are bracketed together on title page. Advertisement on verso of final leaf. Reproduction of the original in the British Library.
Sommario/riassunto	eebo-0018

2. Record Nr. UNINA9910830101203321

Autore	Krysinski Tomasz
Titolo	Mechanical vibrations [[electronic resource]] : active and passive control / / Tomasz Krysinski, Francois Malburet
Pubbl/distr/stampa	London ; ; Newport Beach, CA, : ISTE, c2007
ISBN	1-280-84767-0 9786610847679 0-470-61247-9 0-470-39460-9 1-84704-579-0
Descrizione fisica	1 online resource (391 p.)
Collana	ISTE ; ; v.103
Altri autori (Persone)	MalburetFrancois
Disciplina	620.3 621.8/11 621.811
Soggetti	Rotors - Vibration Damping (Mechanics) Structural control (Engineering)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Mechanical Vibrations; Table of Contents; Foreword; Preface; Part I. Sources of Vibrations; Chapter 1. Unbalance and Gyroscopic Effects; 1.1. Introduction; 1.1.1. Physico-mathematical model of a rotating system; 1.1.2. Formation of equations and analysis; 1.2. Theory of balancing; 1.2.1. Balancing machine or "balancer"; 1.2.1.1. The soft-bearing machine; 1.2.1.2. The hard-bearing machine; 1.2.2. Balancing in situ; 1.2.2.1. The method of separate planes; 1.2.2.2. The method of simultaneous planes - influence coefficients; 1.2.3. Example of application: the main rotor of a helicopter 1.2.3.1. Bench test phase on the ground1.2.3.2. Test phase on a helicopter in flight; 1.3. Influence of shaft bending; 1.3.1. The notion of critical speed; 1.3.2. Forward precession of the flexible shaft; 1.3.2.1. Subcritical speed (: <cr); 1.3.2.2. Resonance (: <cr); 1.3.2.3. Supercritical speed (: <cr); 1.3.3. Balancing flexible shafts; 1.3.4. Example of application: transmission shaft of the tail rotor of a

helicopter; 1.4. Gyroscopic effects; 1.4.1. Forward or backward motion; 1.4.2. Equations of motion; 1.4.2.1. Natural angular frequencies (shaft off motion)
1.4.2.2. Critical speeds during forward precession1.4.2.3. Critical speeds during retrograde precession; Chapter 2. Piston Engines; 2.1. Introduction; 2.2. Excitations generated by a piston engine; 2.2.1. Analytic determination of an engine torque; 2.2.2. Engine excitations on the chassis frame; 2.2.2.1. Knocking load; 2.2.2.2. Pitch torque; 2.2.2.3. Review of actions for a four phase cylinder engine; 2.2.3. The notion of engine balancing; 2.2.3.1. Balancing the knocking loads; 2.2.3.2. Balancing the galloping torque; 2.3. Line shafting tuning; 2.3.1. The notion of tuning
2.3.2. Creation of the equations2.3.3. Line shafting optimization; 2.3.3.1. Results for a non-optimized line shafting; 2.3.3.2. Results for an optimized line shafting; Chapter 3. Dynamics of a Rotor; 3.1. Introduction; 3.2. Description of the blade/hub relationship; 3.2.1. Some historical data; 3.2.2. Hinge link of the blade and the hub; 3.2.2.1. Formation of the equations for blade motion; 3.2.2.2. Homokinetic rotor; 3.3. Rotor technologies; 3.3.1. Articulated rotors; 3.3.1.1. Conventional articulated rotors; 3.3.1.2. Starflex® and Spheriflex® rotors; 3.3.2. Hingeless rotors
3.3.3. Hingeless rotor3.4. Influence of alternate aerodynamic loads; 3.4.1. Load characterization; 3.4.1.1. Loads on a blade; 3.4.1.2. Dynamic response of a blade; 3.4.1.3. Loads transmitted by a mode i; 3.4.2. Analysis of loads transmitted to the rotor hub; 3.4.2.1. Loads transmitted to the rotor; 3.4.2.2. Synthesis of rotor loads on the rotor mast; 3.4.3. Dynamic optimization of a blade; 3.4.3.1. Introduction; 3.4.3.2. Study of the example of an optimized blade; 3.4.3.3. Contribution of the second flapping mode; Chapter 4. Rotor Control; 4.1. Introduction; 4.2. Blade motions
4.2.1. Flapping equation - general case

Sommario/riassunto

For all rotational machines, the analysis of dynamic stresses and the resulting vibrations is an important subject. When it comes to helicopters and piston engines, this analysis becomes crucial. From the design of parts working under stress to the reduction of the vibration levels, the success of a project lies mainly in the hands of the dynamicists. The authors have combined their talents and experience to provide a complete presentation on the issues involved. Part one describes, in concrete terms, the main dynamic phenomena and how they can be observed in reality. Part two presents infor