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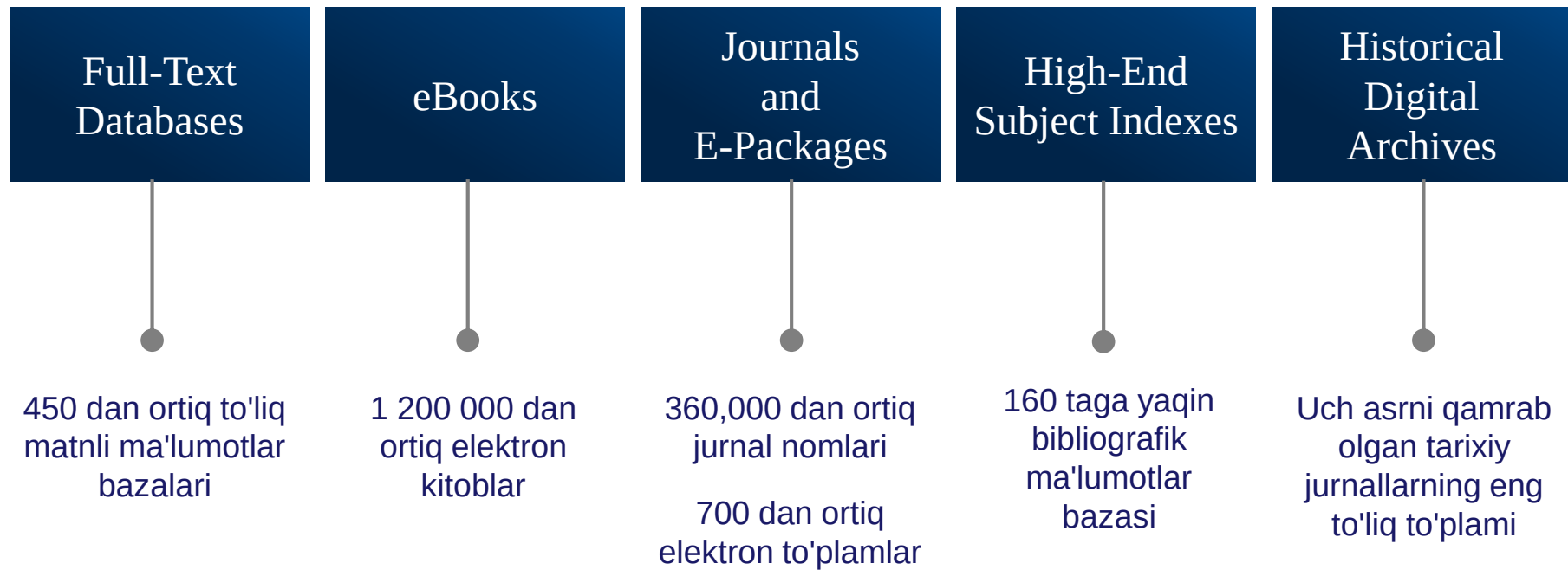
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Поиск



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mechanism

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mechanism of action

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mechanism of injury

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Тема

2. Execution of the C-D-I-O framework at postgraduate level in mechanical engineering.



Научный журнал

By: Namasivayam, Satesh; Hosseini Fouladi, Mohammad; Al-Obaidi, Abdulkareem Sh. Mahdi; Luke Laimon, Alexander; Syafiq, Mohd.; Eftekhari, Shahrooz. *International Journal of Mechanical Engineering Education*. Apr2021, Vol. 49 Issue 2, p101-121. 21p. DOI: 10.1177/0306419019866514.

The usage of the Conceive-Design-Implement-Operate or C-D-I-O initiative is well documented within the context of **engineering** undergraduate programmes. To date, there are over 140 universities ar...

Тематика: MECHANICAL engineering; MECHANICAL engineers; ENGINEERING systems; ENGINEERING design; GRADUATE education

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Тема

- ☐ finite element method (905)
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Тема

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- ☐ shock & vibration (1,060)
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Логический оператор/Фраза:

mechanical engineering
AND detection of bolt

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1. **Detection of Bolt Looseness Based on Average Autocorrelation Function.**



Обнаружение ослабления болта на основе функции средней автокорреляции.

Deqiang; Cheng, Yuan. Shock & Vibration. 5/15/2021, база данных: Science & Technology Collection

the **engineering** fields including aerospace and various advantages like the ability to bear relatively heavy

loads, ...

Тематика: BOLTED joints; AUTOCORRELATION (Statistics); COMPUTER vision; AEROSPACE **engineering**; AEROSPACE engineers; **MECHANICAL engineering**



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2. **Bolt loosening detection using impedance based non-destructive method and probabilistic neural network technique with minimal training data.**



By: Na, Wongi S. **Engineering** Structures. Jan2021, Vol. 226, pN.PAG-N.PAG. 1p. DOI: 10.1016/j.engstruct.2020.111228. , База данных: Academic Search Premier

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Detection of Bolt Looseness Based on Average Autocorrelation Function.

Авторы: [Wu, Jigang](#)¹ (AUTHOR)
[Shao, Jun](#)¹ (AUTHOR)
[Zhou, Gen](#)² (AUTHOR)
[Yang, Deqiang](#)¹ (AUTHOR)
[Cheng, Yuan](#)¹ (AUTHOR)

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Реферат: Bolted connections are widely used in multiple **engineering** fields including aerospace and **mechanical engineering** due to their numerous advantages like the ability to bear relatively heavy loads, low costs, easy installation, and implementation. Bolt looseness may lead to costly disasters in industries and some cases of injuries. A new method for bolt looseness detection based on average autocorrelation function is proposed. It does not usually directly extract the looseness damage feature from the original response signal to detect the bolt looseness, but it uses the average autocorrelation function value at time t and $t + \Delta t$ of the vibration signal displacement signal to establish the looseness damage index in terms of structural

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Detection of Bolt Looseness Based on Average Autocorrelation Function.

Авторы: [Wu, Jigang](#)¹ (AUTHOR)
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[Zhou, Gen](#)² (AUTHOR)
[Yang, Deqiang](#)¹ (AUTHOR)
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Реферат: Bolted connections are widely used in multiple **engineering** fields including aerospace and **mechanical engineering** due to their numerous advantages like the ability to bear relatively heavy loads, low costs, easy installation, and implementation. Bolt looseness may lead to costly disasters in industries and some cases of injuries. A new method for bolt looseness detection based on average autocorrelation function is proposed. It does not usually directly extract the looseness damage

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Detection of Bolt Looseness Based on Average Autocorrelation Function

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2. Theoretical Background

2.1. Response Analysis under Natural Excitation

2.2. Definition of Looseness Damage Index

2.3. Proposed Method and Procedures

3. Experimental Verification

3.1. Detecting System of Bolt Looseness Based on Computer Vision

3.2. Experimental Setup

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Bolted connections are widely used in multiple **engineering** fields including aerospace and **mechanical engineering** because they have numerous advantages such as the ability to bear relatively heavy loads, low costs, easy installation, and easy implementation. However, bolt loosening, induced by fatigue, impact, and thermal loads, may lead to costly disasters in industries and some cases of injuries. A new method for detecting bolt loosening based on average autocorrelation function is proposed. It does not usually directly extract the original response signal to detect the bolt loosening, but it uses the average autocorrelation function of the vibration pixel displacement signal to establish the loosening damage index. The arrangement of this paper, firstly, the theoretical background of the proposed method, secondly, the experimental setup for bolt loosening detection based on computer vision is designed, and a verification experiment is carried out with the bolted connection plate as the experimental object. The results show that the proposed method can effectively obtain the location of the loosening damage of the bolted connection plate, which provides a new technical reference for the online monitoring of the loosening damage of bolted connection plate.

Bolted connections are widely used in multiple **engineering** fields including aerospace and **mechanical engineering**, because they have numerous advantages such as the ability to bear relatively heavy loads, low cost, and easy installation and implementation [[1]]. However, bolt loosening, induced by fatigue, impact, and thermal loads, may lead

ISSN: 1070-9622

DOI: 10.1155/2021/6662686

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[3. Experimental Verification](#)[3.1. Detecting](#)

of Bolt Looseness Based on Average Autocorrelation



1. Introduction

Bolted connections are widely used in multiple **engineering** fields including aerospace and **mechanical engineering** due to their numerous advantages like the ability to bear relatively heavy loads, low costs, easy installation, and implementation. Bolt looseness may lead to costly disasters in industries and some cases of injuries. A new method for bolt looseness detection based on average autocorrelation function is proposed. It does not usually directly extract the looseness damage feature from the original response signal to detect the bolt looseness, but it uses the average autocorrelation function value at time lag $T = 0$ of the vibration pixel displacement signal to establish the looseness damage index. In terms of structural arrangement of this paper, firstly, the theoretical background of the proposed method is given. Then, an experimental system for bolt looseness detection based on computer vision is designed, and a verification experiment is carried out with the bolted connection plate as the experimental object. The results show that the proposed method can effectively obtain the location of the looseness damage of the bolted connection plate, which



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Detection of Bolt Lo...	1
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Isogeometric Analysi...	1

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Detection of Bolt Looseness Based on Average Autocorrelation Function.

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2



Hindawi
Shock and Vibration
Volume 2021, Article ID 6662686, 11 pages
<https://doi.org/10.1155/2021/6662686>



Research Article

Detection of Bolt Looseness Based on Average Autocorrelation Function

Jigang Wu¹, **Jun Shao¹**, **Gen Zhou²**, **Deqiang Yang¹** and **Yuan Cheng¹**

¹Hunan Provincial Key Laboratory of Health Maintenance for Mechanical Equipment, Hunan University of Science and Technology, Xiangtan 411201, China
²AECC Hunan South Astronautics Industry Co, Ltd., Zhuzhou 412002, China

Correspondence should be addressed to Jigang Wu; jwu@cvm.ac.cn

Received 23 November 2020; Revised 6 April 2021; Accepted 3 May 2021; Published 15 May 2021

Academic Editor: Francesco Pellicano

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Bolted connections are widely used in multiple engineering fields including aerospace and mechanical engineering due to their

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Результаты поиска: 1 - 10 из 1,102

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1. Mechanical Engineering : Objective Type: With Multiple Choice Questions and Answers - Including Brief Theory



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] : Laxmi Publications Pvt Ltd. 2016. eBook.

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2. Mechanical Engineering and Science



By: Idris Saad; Solehuddin Shuib; Noriah Yusoff; Abdul Halim Abdullah; Mohd Hafiz Mohd Noh; Nur Faiqa Ismail. Series: Applied Mechanics and Materials Ser, v.Volume 899. Switzerland : Trans Tech Publications Ltd. 2020. eBook.

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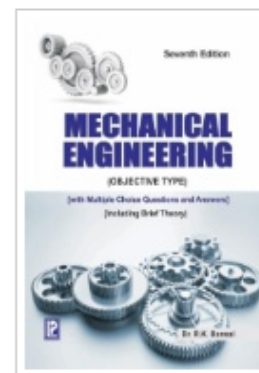
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Mechanical Engineering : Objective Type: With Multiple Choice Questions and Answers - Including Brief Theory

Авторы: [Bansal](#)**Информация об издании:** [Place of publication not identified] : Laxmi Publications Pvt Ltd. 2016**Тип источника:** eBook.**Описание:** The seventh edition of the book entitled '**Mechanical Engineering** (Objective Types with Multiple Choice Questions and Answers)' has been thoroughly revised and enlarged. A new chapter on General **Engineering** and General Aptitude has been included. The questions of Fill in the blanks and Mark the true and false statements have been added.**Тематика:** [Mechanical engineering--Examinations--Study guides](#)
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Mechanical Engineering : Objective Type: With Multiple Choice Questions and Answers - Including Brief Theory



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Дата: 2016
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MECHANICAL ENGINEERING

(OBJECTIVE TYPE)

[with Multiple Choice Questions and Answers]

(Including Brief Theory)

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