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THE LANCET

The Lancet

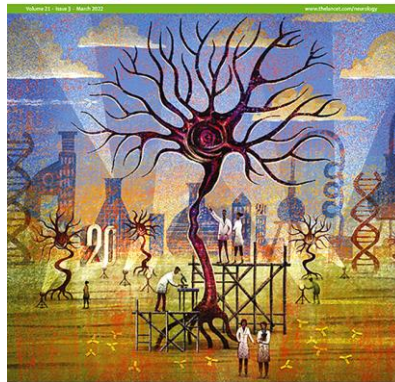
IF 79.323

**2020 JCR Ranking*: 2/169
Medicine, General &
Internal Category**

"Governments, societies, and communities need to take heed, invest more, and act with urgency to reduce violence against women, including by addressing it in post-COVID-19 reconstruction efforts."

Editorial	Perspectives	Articles	Articles	The Lancet Commission
A commitment to accelerate progress against cancer page 101	Reducing health inequalities in China page 105	Role of education in reproductive and sexual health in low-income countries page 110	Consequences of physical inactivity on the health of the world's population page 115	Report of the Lancet Commission on the future of health care in the United Kingdom page 120

THE LANCET
Neurology



Anniversary Round-up	Articles	Review
20 years of progress in multiple sclerosis page 125	Rituximab in glioblastoma: a phase 2 study page 130	Advances and controversies in frontotemporal dementia page 135

**Lancet
Neurology**

IF 44.182

**2020 JCR Ranking*:
1/208 Clinical
Neurology Category**

THE LANCET
Oncology



Perspectives	Articles	Review
Radiation therapy for the early treatment of breast cancer: a review page 145	Genotype-driven therapy for pancreatic cancer: a review page 150	Doxorubicin in adjuvant breast cancer: a review page 155

Lancet oncology

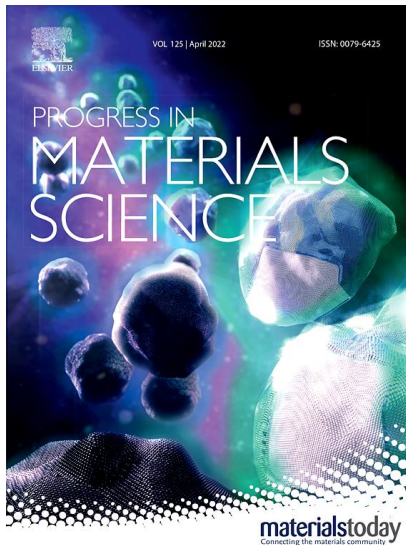
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**2020 JCR Ranking*: 5/243
Oncology Category**

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Progress in Materials Science

IF 39.580

2020 JCR Ranking*: 5/336
**Materials Science,
Multidisciplinary
Category**



Materials Science and Engineering: R: Reports

IF 36.214

2020 JCR Ranking*: 7/336
**Materials Science,
Multidisciplinary Category**

**3/160 Physics, Applied
Category**



Annals of Oncology

IF 32.976

**2020 JCR Ranking*:
7/243 Oncology
Category**

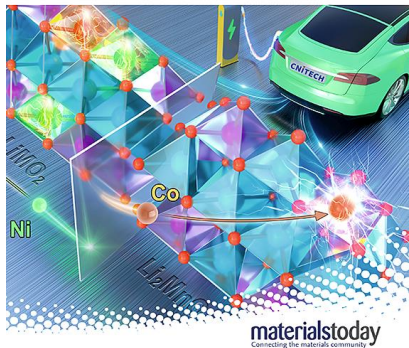
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materialstoday
www.materialstoday.com
DECEMBER 2021 VOLUME 51



Materials Today
IF 31.041

2020 JCR Ranking*: 8/336
**Materials Science,
Multidisciplinary Categor**

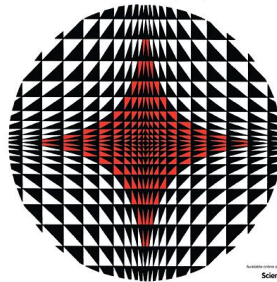


Volume 88, March 2022

ISSN 0360-1285
www.elsevier.com

**PROGRESS IN
ENERGY AND
COMBUSTION SCIENCE**
An International Review Journal

Editors
HAI WANG *Stanford University,
Stanford, California, USA*
CHRISTOF SCHULZ *Universität Duisburg-Essen,
Duisburg, Germany*



**Progress in Energy
and Combustion
Science**

IF 29.394

2020 JCR Ranking*: 4/114
Energy & Fuels Category

**1/62 Thermodynamics
Category**



**Journal of
Hepatology**

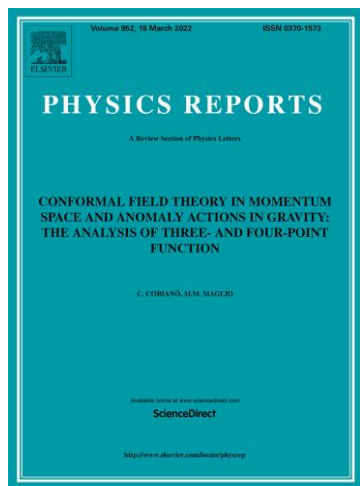
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**Gastroenterology &
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IF 25.600

**2020 JCR Ranking*:
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Multidisciplinary
Category**



**The Lancet
Infectious
Diseases**

IF 25.071

**2020 JCR Ranking*:
1/93 Infectious
Diseases Category**



**Journal of the
American College of
Cardiology**

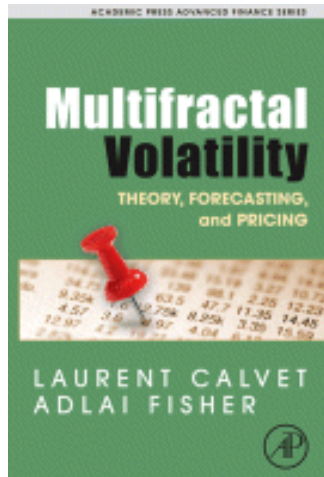
IF 24.093

**2020 JCR Ranking*:
4/143
Journal of the American
College of Cardiology Category**

* база данных **Journal Citation Reports 2020** (JCR) от Clarivate Analytics отслеживает более 11000 журналов по 234 дисциплинам из 81 страны и является всемирно признаваемым источником информации о цитировании журналов. Издание 2020 года выпущено в июне 2021 года.



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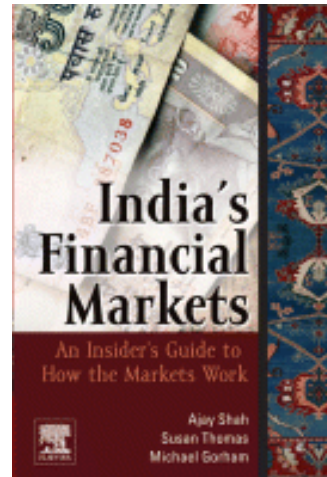
Multifractal Volatility

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DOI

[https://doi.org/10.1016/
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9.X5001-6](https://doi.org/10.1016/B978-0-12-150013-9.X5001-6)



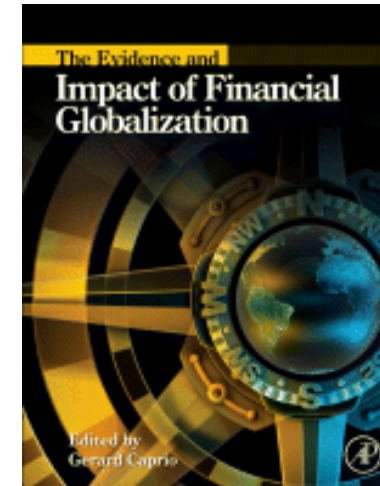
India's Financial Markets

Published - 2008

ISBN 978-0-12-374251-3

DOI

[https://doi.org/10.1016/B9
78-0-12-374251-3.X5001-X](https://doi.org/10.1016/B978-0-12-374251-3.X5001-X)



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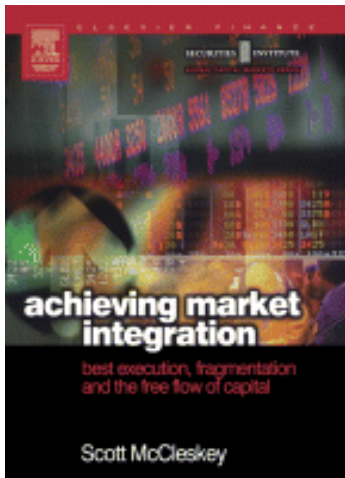
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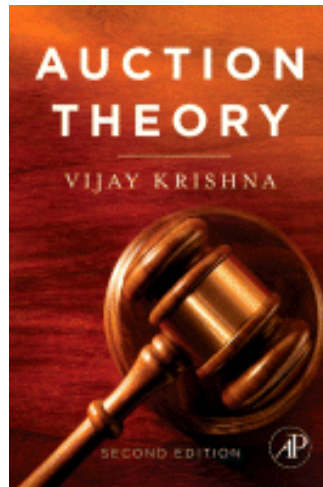
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DOI

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Published - 2010

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Published - 2009

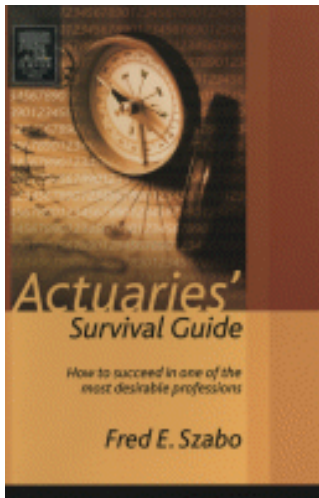
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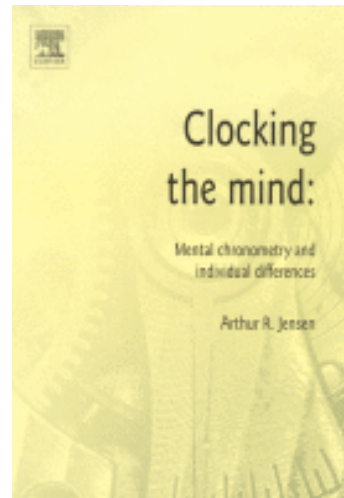
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Published - 2004

ISBN 978-0-12-680146-0

DOI

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B978-0-12-680146-
0.X5000-3](https://doi.org/10.1016/B978-0-12-680146-0.X5000-3)**



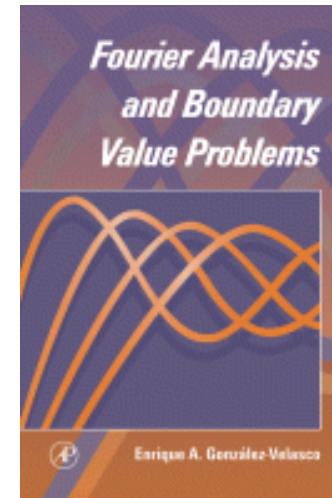
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ISBN 978-0-08-044939-5

DOI

**[https://doi.org/10.1016/B
978-0-08-044939-
5.X5000-9](https://doi.org/10.1016/B978-0-08-044939-5.X5000-9)**



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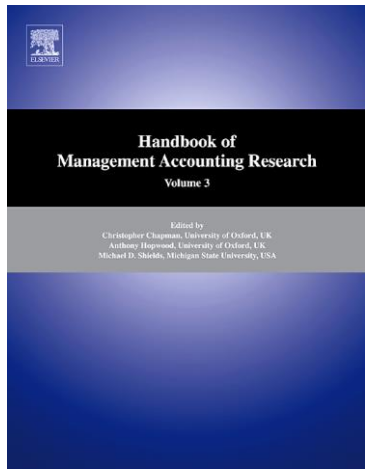
978-0-12-289640-8

DOI

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0-12-289640-8.X5000-X](https://doi.org/10.1016/B978-0-12-289640-8.X5000-X)**



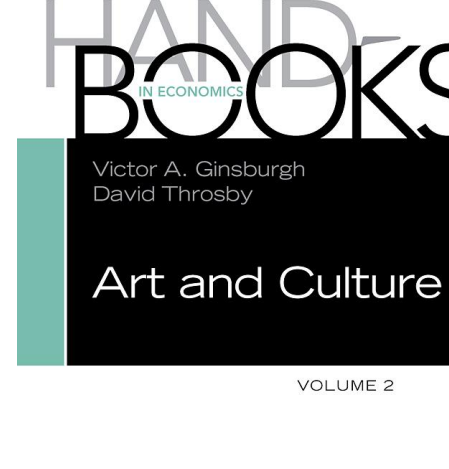
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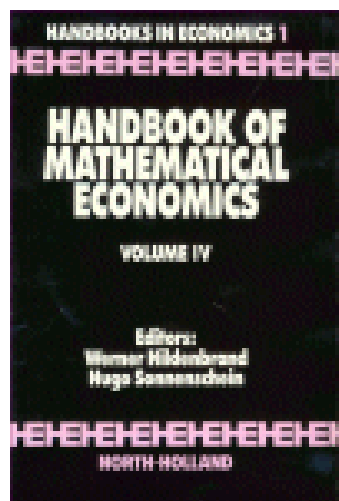


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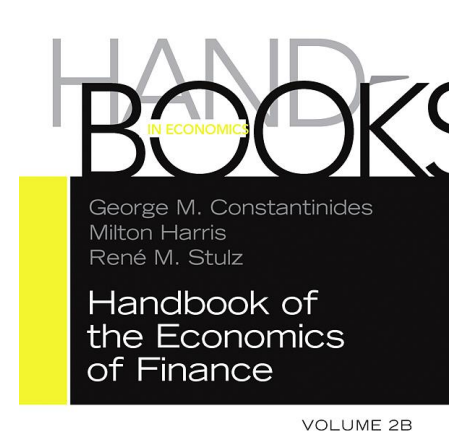
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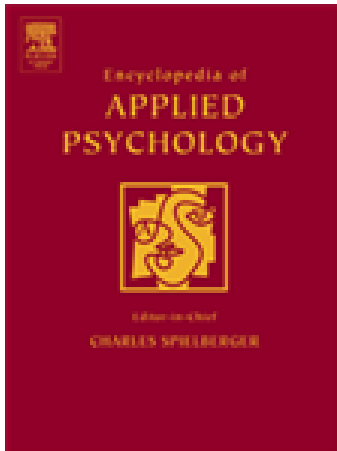


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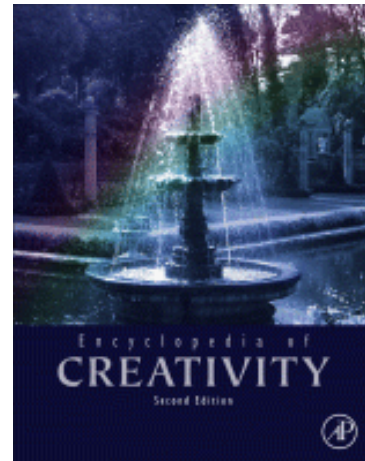
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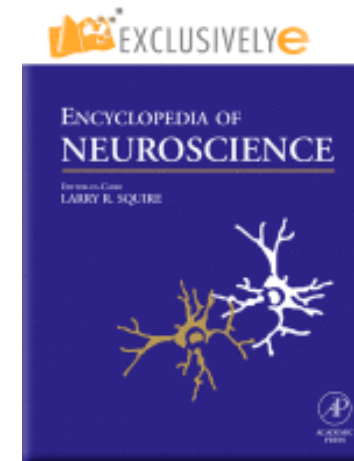
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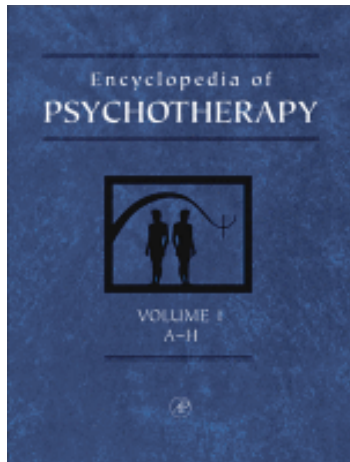
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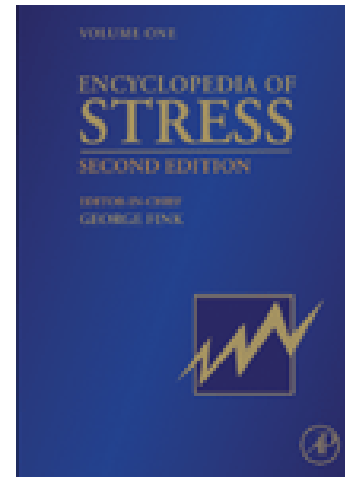
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
 

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
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Authors:
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Volume 399, Issue 10327

26 February–4 March 2022

About the journal


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Volume 399, Issue 10327


Pages 769-884, e7-e10 (26 February–4 March 2022)


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Supplementary appendix

THE LANCET

Volume 399, Issue 10327, 26 February–4 March 2022, Pages 814–823

Risk of infection, hospitalisation, and death up to 9 months after a second dose of COVID-19 vaccine: a retrospective, total population cohort study in Sweden

Prof Peter Nordström PhD ^{a, *}, Marcel Ballin MSc ^{a, b, c}, Anna Nordström PhD ^{a, b, c}

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Summary

Background

Статья в формате PDF

Risk of infection, hospitalisation, and death up to 9 months after a second dose of COVID-19 vaccine: a retrospective, total population cohort study in Sweden

Peter Nordström, Marcel Ballin, Anna Nordström

Summary
Background Vaccine effectiveness against COVID-19 beyond 6 months remains incompletely understood. We aimed to investigate the effectiveness of COVID-19 vaccination against the risk of infection, hospitalisation, and death during the first 9 months after vaccination for the total population of Sweden.

Methods This retrospective, total population cohort study was done using data from Swedish nationwide registers. The cohort comprised all individuals vaccinated with two doses of ChAdOx1 nCoV-19, mRNA-1273, or BNT162b2, and matched unvaccinated individuals, with data on vaccinations and infections updated until Oct 4, 2021. Two outcomes were evaluated. The first was SARS-CoV-2 infection of any severity from Jan 12 to Oct 4, 2021. The second was severe COVID-19, defined as hospitalisation for COVID-19 or all-cause 30-day mortality after confirmed infection, from March 15 to Sept 28, 2021.

Findings Between Dec 28, 2020, and Oct 4, 2021, 842 574 individuals were fully vaccinated (two doses), and were matched (1:1) to an equal number of unvaccinated individuals (total study cohort n=1 685 548). For the outcome SARS-CoV-2 infection of any severity, the vaccine effectiveness of BNT162b2 waned progressively over time, from 92% (95% CI 92 to 93; p<0.001) at 15–30 days, to 47% (39 to 55; p<0.001) at 121–180 days, and to 23% (–2 to 41; p=0.07) from day 211 onwards. Waning was slightly slower for mRNA-1273, with a vaccine effectiveness of 96% (94 to 97; p<0.001) at 15–30 days and 59% (51 to 79; p=0.012) from day 181 onwards. Waning was also slightly slower for heterologous ChAdOx1 nCoV-19 plus an mRNA vaccine, for which vaccine effectiveness was 89% (79 to 94; p<0.001) at 15–30 days and 64% (41 to 80; p<0.001) from day 121 onwards. By contrast, vaccine effectiveness for homologous ChAdOx1 nCoV-19 vaccine was 68% (52 to 79; p<0.001) at 15–30 days, with no detectable effectiveness from day 121 onwards (–19% [–98 to 28]; p=0.49). For the outcome of severe COVID-19, vaccine effectiveness waned from 89% (82 to 93; p<0.001) at 15–30 days to 64% (44 to 77; p<0.001) from day 121 onwards. Overall, there was some evidence for lower vaccine effectiveness in men than in women and in older individuals than in younger individuals.

Interpretation We found progressively waning vaccine effectiveness against SARS-CoV-2 infection of any severity across all subgroups, but the rate of waning differed according to vaccine type. With respect to severe COVID-19, vaccine effectiveness seemed to be better maintained, although some waning became evident after 4 months. The results strengthen the evidence-based rationale for administration of a third vaccine dose as a booster.

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Introduction
Randomised clinical trials have shown a high efficacy of the BNT162b2 (Pfizer-BioNTech), mRNA-1273 (Moderna),¹ and ChAdOx1 nCoV-19 (Oxford-AstraZeneca) COVID-19 vaccines,² and observational studies have estimated a high real-world effectiveness.^{3,4} However, reports on breakthrough infections⁵ and waning immunity^{6–10} have raised concerns regarding the duration of protection.¹¹ With respect to severe COVID-19 outcomes such as hospitalisation or death, follow-ups of clinical trials showed that after 4 months the efficacy of BNT162b2 was about 84%¹² and the efficacy of mRNA-1273 was about 92%¹³ with similar results reported by the US Centers for Disease Control and Prevention.¹⁴ Observational studies from the USA and Qatar also showed that the effectiveness of BNT162b2 against hospitalisation and death persisted up to 6 months,^{15,16} whereas preliminary data from the UK indicate a slight waning, especially in older adults and of ChAdOx1 nCoV-19 compared with BNT162b2.¹⁷ In terms of ChAdOx1 nCoV-19, another observational study reported waning effectiveness against hospitalisation and death within 3 months in Brazil and Scotland.¹⁸ Altogether, although evidence suggests that vaccine effectiveness against severe COVID-19 is relatively well maintained, the data are inconsistent. Similarly, the duration of protection against SARS-CoV-2 infection of any severity is unclear. After 4–5 months of follow-up, the effectiveness of BNT162b2 has been estimated as greater than 80% in one study,¹⁹ around 50% in two



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1 Condition-based maintenance for ship pumps subject to competing risks under stochastic maintenance quality

Ocean Engineering, 6 October 2020, ...

Chaoqun Duan, Zhongjie Li, Fuqiang Liu

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Maintenance improvement is affected by many uncertain factors such as maintainer experience, machine deterioration state, maintenance tools and equipment, it is very hard to determine each restoration degree ahead of repair operation. Therefore, this paper considers a maintenance problem in the presence of competing risks (degradation and sudden failure) under stochastic maintenance quality for a ship pump. The degradation process of ship pump is characterized by a non-homogeneous Gamma process and the hazard rate of sudden failure is described by a proportional hazards model. We propose a two-level condition-based maintenance (CBM) policy with stochastic maintenance quality. The policy combines degradation control limit and age control limit under stochastic maintenance quality of Beta distribution, normal distribution and uniform distribution, respectively, in maintenance decision-making. Maintenance optimization problem is formulated and solved by a computational algorithm in a semi-Markov decision process (SMDP) framework, with the objective of minimizing the long-run expected average cost. The proposed model is illustrated using a numerical study and a real case study of ship.

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Condition-based maintenance for ship pumps subject to competing risks under stochastic maintenance quality^a

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ABSTRACT

Maintenance improvement is affected by many uncertain factors such as maintainer experience, machine deterioration state, maintenance tools and equipment, it is very hard to determine each restoration degree ahead of repair operation. Therefore, this paper considers a maintenance problem in the presence of competing risks (degradation and sudden failure) under stochastic maintenance quality for a ship pump. The degradation process of ship pump is characterized by a non-homogeneous Gamma process and the hazard rate of sudden failure is described by a proportional hazards model. We propose a two-level condition-based maintenance (CBM) policy with stochastic maintenance quality. The policy combines degradation control limit and age control limit under stochastic maintenance quality of Beta distribution, normal distribution and uniform distribution, respectively, in maintenance decision-making. Maintenance optimization problem is formulated and solved by a computational algorithm in a semi-Markov decision process (SMDP) framework, with the objective of minimizing the long-run expected average cost. The proposed model is illustrated using a numerical study and a real case study of ship pump, respectively, and comparative results show the effectiveness and superiority of our approach.

1. Introduction

Ship pump is the key component for water transportation and pollution draining for ships, and it is widely used in ocean industries in recent decades. However, extreme operating conditions on vessels, such as salt water, random shock and humid environment might cause serious damage and fatigue on the ship pump, and consequently lead to unexpected breakdowns, operational losses, and safety hazards (Li et al., 2020). For these reasons, advanced maintenance technique (i.e., CBM) is devised to perform based on the actual operating status of the pump before failure occurs (Cipollini et al., 2015). Current maintenance practices use age based or experience-based policy to maintain the ship pump, which is not effective and may only result in high risks of pipe blockage and effluent backflow. Therefore, development of CBM for ship pump is significantly necessary and pressing in maintaining desirable reliability and satisfactory performance of shipborne (Duan et al., 2019; Gohstetter et al., 2019; Dong and Pengpeng, 2019).

The existing maintenance strategies can be classified as preventive maintenance which repair is taken before failure, and corrective maintenance which repair is performed after the failure occurs (Tang et al., 2019). CBM combines preventive maintenance and corrective maintenance to perform repair according to the monitored operating conditions (Zou et al., 2019). The aim of CBM is to jointly determine when and what the maintenance should be taken. Some successful examples have been implemented to demonstrate the effectiveness of CBM in real applications (Schu et al., 2019; Tan et al., 2019). Among these cases, maintenance models are categorized into two types: deterministic maintenance model and stochastic maintenance model. Research works related to deterministic maintenance assumed that the machine can be repaired to a certain operating condition give a maintenance action. The action restoration could be perfect or imperfect for which brings the machine state to a brand new or to a condition between new and old, respectively. Maintenance with full (perfect)

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