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Mechanical Engineering Design,
Third Edition, SI Version strikes a

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balance between theory and application, and prepares students for more advanced study or professional practice. Updated throughout, it outlines basic concepts and provides the necessary theory to gain insight into mechanics with

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numerical methods in design.

Divided into three sections, the text presents background topics, addresses failure prevention across a variety of machine elements, and covers the design of machine components as well as entire

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machines. Optional sections treating special and advanced topics are also included. Features: Places a strong emphasis on the fundamentals of mechanics of materials as they relate to the study of mechanical design
Furnishes material selection charts

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and tables as an aid for specific utilizations Includes numerous practical case studies of various components and machines Covers applied finite element analysis in design, offering this useful tool for computer-oriented examples

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Addresses the ABET design criteria in a systematic manner Presents independent chapters that can be studied in any order Mechanical Engineering Design, Third Edition, SI Version allows students to gain a grasp of the fundamentals of

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machine design and the ability to apply these fundamentals to various new engineering problems.

The increasing necessity to solve complex problems in Structural Dynamics and Earthquake Engineering requires the

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development of new ideas, innovative methods and numerical tools for providing accurate numerical solutions in affordable computing times. This book presents the latest scientific developments in Computational Dynamics, Stochastic

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Dynam

This is the first book to revisit geotechnical site characterization from a probabilistic point of view and provide rational tools to probabilistically characterize geotechnical properties and

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underground stratigraphy using limited information obtained from a specific site. This book not only provides new probabilistic approaches for geotechnical site characterization and slope stability analysis, but also tackles the

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difficulties in practical implementation of these approaches. In addition, this book also develops efficient Monte Carlo simulation approaches for slope stability analysis and implements these approaches in a commonly available

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spreadsheet environment. These approaches and the software package are readily available to geotechnical practitioners and alleviate them from reliability computational algorithms. The readers will find useful information

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for a non-specialist to determine project-specific statistics of geotechnical properties and to perform probabilistic analysis of slope stability.

Safety, Reliability, Risk and Life-Cycle Performance of Structures and

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Infrastructures

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Which Help Them Not Only In This Course, But Also In The Connected Courses Of Higher Classes. The Dynamics Part Is Split In To Sufficient Number Of Chapters To Clearly Illustrate Linear Motion To

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General Plane Motion. A Chapter On Shear Force And Bending Moment Diagrams Is Added At The End To Cover The Syllabi Of Various Universities. All These Features Make This Book A Self-

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*The present title Engineering
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those preparing for the higher
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professional institution examinations, as well as for those following a degree, or diploma courses. The main aim has been to give a clear understanding of the principles underlying

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engineering design, and a special effort has been made to indicate the shortest analysis of a wide variety of problem. Each chapter is complete in itself and is built up logically to cover all

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aspects of the particular theory. The book is written in a simple and easy to follow language, so that even an average student can grasp the subject by self study. In the preparation of this book large

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number of books and research papers have been consulted.

So no authenticity is claimed.

Contents: Fundamentals of Engineering Mechanics, Beams and Cables, Trusses, Moments and Products of

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Inertia, Friction, Kinematics of Rigid Bodies: Relative Motion, Kinetics of Plane Motion of Rigid Bodies.

The papers in this volume provide an introduction to well known and established system

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identification methods for structural health monitoring and to more advanced, state-of-the-art tools, able to tackle the challenges associated with actual implementation.

Starting with an overview on

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fundamental methods, introductory concepts are provided on the general framework of time and frequency domain, parametric and non-parametric methods, input-output or output only

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techniques. Cutting edge tools are introduced including, nonlinear system identification methods; Bayesian tools; and advanced modal identification techniques (such as the Kalman and particle filters, the

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fast Bayesian FFT method).

Advanced computational tools for uncertainty quantification are discussed to provide a link between monitoring and structural integrity assessment. In addition, full

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Mechanics of Structures and
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*Krishna's Engineering
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Mechanics Department of
Mechanical Engineering Tire
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Mechanics of Structures and
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Challenges is a collection of peer-reviewed papers presented at the 24th Australasian Conference on the Mechanics of Structures and Materials (ACMSM24, Curtin University, Perth, Western Australia, 6-9 December 2016). The

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contributions from academics, researchers and practising engineers from Australasian, Asia-pacific region and around the world, cover a wide range of topics, including: •

Structural mechanics •

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and impact loading • Earthquake loading • Traffic and other man-made loadings • Wave and wind loading • Thermal effects • Design codes Mechanics of Structures and Materials: Advancements and Challenges will be of interest to

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involved in Structural Engineering
and Materials Science.

The Second International

Conference on Structural

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Computation was held in Cape

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Town, South Africa in 2004. Its mission was 'To review and share the latest developments, and address the challenges that the present and the future pose'. This book contains its key findings with contributions from academics, researchers and

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practitioners in the broad fields of structural mechanics, associated computation and structural engineering. Their work builds a clear picture of recent achievements in the advancement of knowledge and understanding in these areas.

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This text therefore covers all aspects of structural mechanics and is broken down into 36 sections which communicate the latest discoveries and developments across the following areas: * vibration, dynamics, impact response, soil-

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structure interaction and damage mechanics * numerical modeling and computational methods * practical aspects of the analysis, design, and construction of structures - Specific classes of structures such as shells, plates, frames, bridges, buildings,

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lightweight structures, space structures and foundation structures
* a variety of construction materials ranging from the traditional timber, masonry, concrete, steel and glass, to recent innovations encompassing high-performance composites,

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ceramics, high-strength concrete, fibre-reinforced concrete, stainless steel and smart alloys. The large number of high-quality papers presented and the wide spectrum of relevant topics covered, as well as the great diversity of nationalities

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represented by the participants, bring the reader up to speed with developments on a global scale. Mechanical Engineering Design, Third Edition strikes a balance between theory and application, and prepares students for more advanced

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emphasis on the fundamentals of mechanics of materials as they relate to the study of mechanical design
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a grasp of the fundamentals of

machine design and the ability to

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apply these fundamentals to various new engineering problems.

THE UNIVERSITY OF
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ENGINEERING DEPARTMENT
OF ENGINEERING MECHANICS
DEPARTMENT OF

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MECHANICAL ENGINEERING
TIRE AND SUSPENSION
SYSTEMS RESEARCH GROUP
TECHNICAL REPORT NO. 9
COMPARISON OF CORD LOADS
WITH A 24 X 7.7 TYPE VII
AIRCRAFT TIRE ON GROOVED

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AND SMOOTH RUNWAY SURFACES

Bibliography on Motor Vehicle &
Traffic Safety

Probabilistic Approaches for
Geotechnical Site Characterization
and Slope Stability Analysis

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EURODYN 2002 : Proceedings of
the 4th [i.e. 5th] International
Conference on Structural Dynamics,
Munich, Germany, 2-5 September
2002

Statics & Dynamics

Increasing demand on improving

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the resiliency of modern structures and infrastructure requires ever more critical and complex designs. Therefore, the need for accurate and efficient approaches to assess uncertainties in loads, geometry,

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material properties, manufacturing processes, and operational environments has increased significantly. Reliability-based techniques help develop more accurate initial guidance for robust design and help to identify

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the sources of significant uncertainty in structural systems. Reliability-Based Analysis and Design of Structures and Infrastructure presents an overview of the methods of classical reliability analysis and

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design most associated with structural reliability. It also introduces more modern methods and advancements, and emphasizes the most useful methods and techniques used in reliability and risk studies, while

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elaborating their practical applications and limitations rather than detailed derivations. Features: Provides a practical and comprehensive overview of reliability and risk analysis and design techniques. Introduces

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resilient and smart structures/infrastructure that will lead to more reliable and sustainable societies. Considers loss elimination, risk management and life-cycle asset management as related to

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infrastructure projects.

Introduces probability theory, statistical methods, and reliability analysis methods. Reliability-Based Analysis and Design of Structures and Infrastructure is suitable for researchers and

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practicing engineers, as well as upper-level students taking related courses in structural reliability analysis and design.

This book starts with the basic ideas in uncertainty propagation using Monte Carlo methods and

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the generation of random variables and stochastic processes for some common distributions encountered in engineering applications. It then introduces a class of powerful simulation techniques called

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Markov Chain Monte Carlo method (MCMC), an important machinery behind Subset Simulation that allows one to generate samples for investigating rare scenarios in a probabilistically consistent

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manner. The theory of Subset Simulation is then presented, addressing related practical issues encountered in the actual implementation. The book also introduces the reader to probabilistic failure analysis and

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reliability-based sensitivity analysis, which are laid out in a context that can be efficiently tackled with Subset Simulation or Monte Carlo simulation in general. The book is supplemented with an Excel VBA

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code that provides a user-friendly tool for the reader to gain hands-on experience with Monte Carlo simulation. Presents a powerful simulation method called Subset Simulation for efficient engineering risk

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*assessment and failure and
sensitivity analysis Illustrates
examples with MS Excel
spreadsheets, allowing readers
to gain hands-on experience with
Monte Carlo simulation Covers
theoretical fundamentals as well*

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*as advanced implementation
issues A companion website is
available to include the
developments of the software
ideas This book is essential
reading for graduate students,
researchers and engineers*

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interested in applying Monte Carlo methods for risk assessment and reliability based design in various fields such as civil engineering, mechanical engineering, aerospace engineering, electrical

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engineering and nuclear engineering. Project managers, risk managers and financial engineers dealing with uncertainty effects may also find it useful.

Insights and Innovations in

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*Structural Engineering,
Mechanics and Computation
comprises 360 papers that were
presented at the Sixth
International Conference on
Structural Engineering,
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(SEMC 2016, Cape Town, South Africa, 5-7 September 2016).

The papers reflect the broad scope of the SEMC conferences, and cover a wide range of engineering structures (buildings, bridges, towers, roofs,

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foundations, offshore structures, tunnels, dams, vessels, vehicles and machinery) and engineering materials (steel, aluminium, concrete, masonry, timber, glass, polymers, composites, laminates, smart materials).

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*Proceedings of the Second
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Cape Town, South Africa, 5-7
July 2004*

With Applications

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*A Textbook of Engineering
Mechanics*

Proceedings of the IUTAM

Symposium held in Nanjing,

China, September 18-22, 2006

Structural Engineering,

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Safety, Reliability, Risk
and Life-Cycle Performance
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Infrastructures contains the
plenary lectures and papers
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RELIABILITY (ICOSSAR2013,
New York, NY, USA, 16-20
June 2013), and covers major
aspects of safety,
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299	6. 7	Beam Deflections-The Area- Moment Method
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*7.	

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Following on from the International Conference on Structural Engineering, Mechanics and Computation, held in Cape Town in April 2001, this book contains the Proceedings, in two volumes. There are over 170 papers

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written by Authors from around 40 countries worldwide. The contributions include 6 Keynote Papers and 12 Special Invited Papers. In line with the aims of the SEMC 2001 International Conference, and as may be

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seen from the List of Contents, the papers cover a wide range of topics under a variety of themes. There is a healthy balance between papers of a theoretical nature, concerned with various aspects of

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structural mechanics and computational issues, and those of a more practical nature, addressing issues of design, safety and construction. As the contributions in these Proceedings show, new and

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more efficient methods of structural analysis and numerical computation are being explored all the time, while exciting structural materials such as glass have recently come onto the scene. Research interest in

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the repair and rehabilitation of existing infrastructure continues to grow, particularly in Europe and North America, while the challenges to protect human life and property against the effects of fire,

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earthquakes and other hazards are being addressed through the development of more appropriate design methods for buildings, bridges and other engineering structures. Progress in Structural

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SEMC 2001 (2 Volume Set)

(for Engineering Students)

This book is based on the author's experiences in engineering practice and in the classroom. The

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introductory topics in wave mechanics and the presentation of such have their foundations in the courses taught at the U.S. Naval Academy. The advanced topics have their origins in the

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***postgraduate courses taught
at the Johns Hopkins
University.***

***Researchers in the
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reliability-based design and modeling of uncertainty when data is limited. Non deterministic approaches have enabled industries to save billions by reducing design and warranty costs and by

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improving quality. Considering the lack of comprehensive and defini

This is a state-of-the-art treatise on the problems of both nonlinearity and uncertainty in the dynamics

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and control of engineering systems. The concept of dynamics and control implies the combination of dynamic analysis and control synthesis. It is essential to gain insight into the dynamics

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of a nonlinear system with uncertainty if any new control strategy is designed to utilize nonlinearity.

***Electrical, Civil, Mechanical,
and Mining Engineering
Identification Methods for***

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***Structural Health Monitoring
Reliability-Based Analysis and
Design of Structures and
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Engineering Mechanics (SI
Units)
Mechanical Engineering***

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Design (SI Edition)

Inverse problems occur in a wide variety of fields. In general, the inverse problem can be defined as one where one should estimate the cause from the result, while

the direct problem is concerned with how to obtain the result from the cause. The aim of this symposium was to gather scientists and researchers in engineering mechanics

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concerned with inverse problems in order to exchange research result and develop computational and experimental approaches to solve inverse problems. The contributions in this

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volume cover the following subjects: mathematical and computational aspects of inverse problems, parameter or system identification, shape determination, sensitivity analysis,

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***optimization, material
property characterization,
ultrasonic nondestructive
testing, elastodynamic
inverse problems, thermal
inverse problems, and other
miscellaneous engineering***

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applications.

Provides a thorough

understanding of the

principles and applications

of engineering mechanics.

Beginning with an

introduction to the subject,

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the book provides a detailed treatment of systems of forces and explains the concepts of centroid and centre of gravity, moment of inertia, virtual work, friction, kinematics of

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***particle and motion of
projectiles. It also discusses
the laws of motion, power
and energy, and collision of
elastic bodies in dynamics.
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India

***Mechanical Engineering
Design***

***Proceedings of the 24th
Australian Conference on
the Mechanics of Structures
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Perth, Australia, 6-9

December 2016)

Mechanical Engineering

IUTAM Symposium on

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Applied Mechanics

The proceedings contain contributions presented by authors from more than 30 countries at EURO DYN 2002. The proceedings show recent scientific developments as well

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as practical applications, they cover the fields of theory of vibrations, nonlinear vibrations, stochastic dynamics, vibrations of structured elements, wave propagation and structure-borne sound, including questions of

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fatigue and damping. Emphasis is laid on vibrations of bridges, buildings, railway structures as well as on the fields of wind and earthquake engineering, respectively. Enriched by a number of keynote lectures and

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organized sessions the two volumes of the proceedings present an overview of the state of the art of the whole field of structural dynamics and the tendencies of its further development.

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the solution of engineering pro
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Inverse Problems in Engineering
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