

Advanced Strength And Applied Stress Analysis 2nd International Edition

The Leading Practical Guide to Stress Analysis—Updated with State-of-the-Art Methods, Applications, and Problems This widely acclaimed exploration of real-world stress analysis reflects advanced methods and applications used in today's mechanical, civil, marine, aeronautical engineering, and engineering mechanics/science environments. Practical and systematic, *Advanced Mechanics of Materials and Applied Elasticity, Sixth Edition*, has been updated with many new examples, figures, problems, MATLAB solutions, tables, and charts. The revised edition balances discussions of advanced solid mechanics, elasticity theory, classical analysis, and computer-oriented approaches that facilitate solutions when problems resist conventional analysis. It illustrates applications with case studies, worked examples, and problems drawn from modern applications, preparing readers for both advanced study and practice. Readers will find updated coverage of analysis and design principles, fatigue criteria, fracture mechanics, compound cylinders, rotating disks, 3-D Mohr's circles, energy and variational methods, buckling of various columns, common

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shell types, inelastic materials behavior, and more. The text addresses the use of new materials in bridges, buildings, automobiles, submarines, ships, aircraft, and spacecraft. It offers significantly expanded coverage of stress concentration factors and contact stress developments. This book aims to help the reader Review fundamentals of statics, solids mechanics, stress, and modes of load transmission Master analysis and design principles through hands-on practice to illustrate their connections Understand plane stress, stress transformations, deformations, and strains Analyze a body's load-carrying capacity based on strength, stiffness, and stability Learn and apply the theory of elasticity Explore failure criteria and material behavior under diverse conditions, and predict component deformation or buckling Solve problems related to beam bending, torsion of noncircular bars, and axisymmetrically loaded components, plates, or shells Use the numerical finite element method to economically solve complex problems Characterize the plastic behavior of materials Register your product for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

This systematic exploration of real-world stress analysis has been completely revised and updated to reflect state-of-the-art methods and applications now in use throughout the fields of aeronautical, civil, and mechanical engineering and

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engineering mechanics. Distinguished by its exceptional visual interpretations of the solutions, it offers an in-depth coverage of the subjects for students and practicing engineers. The authors carefully balance comprehensive treatments of solid mechanics, elasticity, and computer-oriented numerical methods. In addition, a wide range of fully worked illustrative examples and an extensive problem sets—many taken directly from engineering practice—have been incorporated. Key additions to the Fourth Edition of this highly acclaimed textbook are materials dealing with failure theories, fracture mechanics, compound cylinders, numerical approaches, energy and variational methods, buckling of stepped columns, common shell types, and more. Contents include stress, strain and stress-strain relations, problems in elasticity, static and dynamic failure criteria, bending of beams and torsion of bars, finite difference and finite element methods, axisymmetrically loaded members, beams on elastic foundations, energy methods, elastic stability, plastic behavior of materials, stresses in plates and shells, and selected references to expose readers to the latest information in the field.

Applied Petroleum Geomechanics provides a bridge between theory and practice as a daily use reference that contains direct industry applications. Going beyond the basic fundamentals of rock properties, this guide covers critical field and lab

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tests, along with interpretations from actual drilling operations and worldwide case studies, including abnormal formation pressures from many major petroleum basins. Rounding out with borehole stability solutions and the geomechanics surrounding hydraulic fracturing and unconventional reservoirs, this comprehensive resource gives petroleum engineers a much-needed guide on how to tackle today's advanced oil and gas operations. Presents methods in formation evaluation and the most recent advancements in the area, including tools, techniques and success stories Bridges the gap between theory of rock mechanics and practical oil and gas applications Helps readers understand pore pressure calculations and predictions that are critical to shale and hydraulic activity

An up-to-date and practical reference book on piping engineering and stress analysis, this book emphasizes three main concepts: using engineering common sense to foresee a potential piping stress problem, performing the stress analysis to confirm the problem, and lastly, optimizing the design to solve the problem. Systematically, the book proceeds from basic piping flexibility analyses, springer hanger selections, and expansion joint applications, to vibration stress evaluations and general dynamic analyses. Emphasis is placed on the interface with connecting equipment such as vessels, tanks, heaters, turbines, pumps and

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compressors. Chapters dealing with discontinuity stresses, special thermal problems and cross-country pipelines are also included. The book is ideal for piping engineers, piping designers, plant engineers, and mechanical engineers working in the power, petroleum refining, chemical, food processing, and pharmaceutical industries. It will also serve as a reference for engineers working in building and transportation services. It can be used as an advance text for graduate students in these fields.

This systematic exploration of real-world stress analysis has been completely updated to reflect state-of-the-art methods and applications now used in aeronautical, civil, and mechanical engineering, and engineering mechanics. Distinguished by its exceptional visual interpretations of solutions, *Advanced Mechanics of Materials and Applied Elasticity* offers in-depth coverage for both students and engineers. The authors carefully balance comprehensive treatments of solid mechanics, elasticity, and computer-oriented numerical methods—preparing readers for both advanced study and professional practice in design and analysis. This major revision contains many new, fully reworked, illustrative examples and an updated problem set—including many problems taken directly from modern practice. It offers extensive content improvements throughout, beginning with an all-new introductory chapter on the fundamentals

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of materials mechanics and elasticity. Readers will find new and updated coverage of plastic behavior, three-dimensional Mohr's circles, energy and variational methods, materials, beams, failure criteria, fracture mechanics, compound cylinders, shrink fits, buckling of stepped columns, common shell types, and many other topics. The authors present significantly expanded and updated coverage of stress concentration factors and contact stress developments. Finally, they fully introduce computer-oriented approaches in a comprehensive new chapter on the finite element method.

This book is a profound compendium on strain gages and their application in materials science and all fields of engineering. It covers both the theoretical and practical aspects of strength and stress analysis using the technique of strain gages. A brief historical review about strain gage inventions is looking at the "who, when and how". The comprehensive bibliography leads to additional background information. Particular consideration is given to the stress analysis in order to verify the mechanical properties and capacity of components with focus on stability and serviceability, optimization, and safety checks, as well as in order to foresee inspection and monitoring. The practice-oriented descriptions of the principles of the measurement, installation and experimental set-ups derives from the author's own experiences in the field. Particular emphasis is laid on the

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correct planning and assessment of measurements, and on the interpretation of the results. Step-by-step guidance is given for many application examples, and comments help to avoid typical mistakes. The book is an indispensable reference work for experts who need to analyze structures and have to plan measurements which lead to reliable results. The book is instructive for practitioners who must install reliable measurement circuits and judge the results. The book is also recommended for beginners to get familiar with the problems and to learn about the possibilities and the limits of the strain gage technique.

Updated and improved, *Stress Analysis of Fiber-Reinforced Composite Materials*, Hyer's work remains the definitive introduction to the use of mechanics to understand stresses in composites caused by deformations, loading, and temperature changes. In contrast to a materials science approach, Hyer emphasizes the micromechanics of stress and deformation for composite material analysis. The book provides invaluable analytic tools for students and engineers seeking to understand composite properties and failure limits. A key feature is a series of analytic problems continuing throughout the text, starting from relatively simple problems, which are built up step-by-step with accompanying calculations. The problem series uses the same material properties, so the impact of the elastic and thermal expansion properties for a

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single-layer of FR material on the stress, strains, elastic properties, thermal expansion and failure stress of cross-ply and angle-ply symmetric and unsymmetric laminates can be evaluated. The book shows how thermally induced stresses and strains due to curing, add to or subtract from those due to applied loads. Another important element, and one unique to this book, is an emphasis on the difference between specifying the applied loads, i.e., force and moment results, often the case in practice, versus specifying strains and curvatures and determining the subsequent stresses and force and moment results. This represents a fundamental distinction in solid mechanics.

Structural analysis is the corner stone of civil engineering and all students must obtain a thorough understanding of the techniques available to analyse and predict stress in any structure. The new edition of this popular textbook provides the student with a comprehensive introduction to all types of structural and stress analysis, starting from an explanation of the basic principles of statics, normal and shear force and bending moments and torsion. Building on the success of the first edition, new material on structural dynamics and finite element method has been included. Virtually no prior knowledge of structures is assumed and students requiring an accessible and comprehensive insight into stress analysis will find no better book available. Provides a comprehensive overview of the subject providing an invaluable resource to

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undergraduate civil engineers and others new to the subject Includes numerous worked examples and problems to aide in the learning process and develop knowledge and skills Ideal for classroom and training course usage providing relevant pedagogy This 9th edition features a major new case study developed to help illuminate the complexities of shafts and axles.

Introduction to geologic fracture mechanics covering geologic structural discontinuities from theoretical and field-based perspectives.

The "Classic Edition" of Shigley & Mischke, Mechanical Engineering Design 5/e provides readers the opportunity to use this well-respected version of the bestselling textbook in Machine Design. Originally published in 1989, MED 5/e provides a balanced overview of machine element design, and the background methods and mechanics principles needed to do proper analysis and design. Content-wise the book remains unchanged from the latest reprint of the original 5th edition. Instructors teaching a course and needing problem solutions can contact McGraw-Hill Account Management for a copy of the Instructor Solutions Manual.

The ultimate resource for designers, engineers, and analyst working with calculations of loads and stress.

This book summarizes the main methods of experimental stress analysis and examines their application to various states of stress of major technical interest, highlighting aspects not always covered in the classic literature. It is explained how experimental

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stress analysis assists in the verification and completion of analytical and numerical models, the development of phenomenological theories, the measurement and control of system parameters under operating conditions, and identification of causes of failure or malfunction. Cases addressed include measurement of the state of stress in models, measurement of actual loads on structures, verification of stress states in circumstances of complex numerical modeling, assessment of stress-related material damage, and reliability analysis of artifacts (e.g. prostheses) that interact with biological systems. The book will serve graduate students and professionals as a valuable tool for finding solutions when analytical solutions do not exist.

Noted for its practical, accessible approach to senior and graduate-level engineering mechanics, *Plates and Shells: Theory and Analysis* is a long-time bestselling text on the subjects of elasticity and stress analysis. Many new examples and applications are included to review and support key foundational concepts. Advanced methods are discussed and analyzed, accompanied by illustrations. Problems are carefully arranged from the basic to the more challenging level. Computer/numerical approaches (Finite Difference, Finite Element, MATLAB) are introduced, and MATLAB code for selected illustrative problems and a case study is included.

Fatigue of structures and materials covers a wide scope of different topics. The purpose of the present book is to explain these topics, to indicate how they can be analyzed, and how this can contribute to the designing of fatigue resistant structures and to

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prevent structural fatigue problems in service. Chapter 1 gives a general survey of the topic with brief comments on the significance of the aspects involved. This serves as a kind of a program for the following chapters. The central issues in this book are predictions of fatigue properties and designing against fatigue. These objectives cannot be realized without a physical and mechanical understanding of all relevant conditions. In Chapter 2 the book starts with basic concepts of what happens in the material of a structure under cyclic loads. It illustrates the large number of variables which can affect fatigue properties and it provides the essential background knowledge for subsequent chapters. Different subjects are presented in the following main parts:

- Basic chapters on fatigue properties and predictions (Chapters 2–8)
- Load spectra and fatigue under variable-amplitude loading (Chapters 9–11)
- Fatigue tests and scatter (Chapters 12 and 13)
- Special fatigue conditions (Chapters 14–17)
- Fatigue of joints and structures (Chapters 18–20)
- Fiber-metal laminates (Chapter 21)

Each chapter presents a discussion of a specific subject.

A thorough study of the oscillatory and transient motion of mechanical and structural systems, *Engineering Vibrations, Second Edition* presents vibrations from a unified point of view, and builds on the first edition with additional chapters and sections that contain more advanced, graduate-level topics. Using numerous examples and case studies to r

This important book presents developments in a remarkable field of inquiry in

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statistical/probability theory the stressOCostrengthmodel. Many papers in the field include the enigmatic words "P" ("X"Y") or something similar in the title."

Even the earliest weapon developers faced the need to understand how and why guns and ammunition work in order to improve their effectiveness. As weapons became more sophisticated, the field of ballistics naturally divided into three main areas of specialization: interior, exterior, and terminal ballistics. Providing unique coverage of all three ar

This volume comprises two classic essays on the mathematical theories of elasticity and plasticity by authorities in this area of engineering science. Undergraduate and graduate students in engineering as well as professional engineers will find these works excellent texts and references. The *Mathematical Theory of Elasticity* covers plane stress and plane strain in the isotropic medium, holes and fillets of assignable shapes, approximate conformal mapping, reinforcement of holes, mixed boundary value problems, the third fundamental problem in two dimensions, eigensolutions for plane and axisymmetric states, anisotropic elasticity, thermal stress, elastic waves induced by thermal shock, three-dimensional contact problems, wave propagation, traveling loads and sources of disturbance, diffraction, and pulse propagation. The *Mathematical Theory of Plasticity* explores the theory of perfectly plastic solids, the theory of strain-hardening plastic solids, piecewise linear plasticity, minimum principles of plasticity, bending of a circular plate, and other problems.

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1. Principle of stationary potential 2. Rayleigh-Ritz method 3. stress-stiffening 4. Finite element method 5. Finite element analysis of buckling 6. Large deflection problem-shallow truss 7. Plasticity 8. Yield criteria for general states of stress 9. Elastic-Plastic stress-strain relations 10. Axisymmetric plasticity problems 11. Plasticity analysis with strain hardening 12. Finite element method for plasticity 13. Creep 14. Finite element analysis of contact problems

Everyone possesses psychic powers and can be presently aware of events and experiences transcending the five senses. This book will teach you how to use your latent psychic powers to benefit your daily life. Dr. Murphy explains how to contact the Infinite Healing Presence within you. He supplies specific techniques for putting extrasensory powers into operation for your practical benefit, with amazing results. Make the most of your life as you put Murphy's clear advice to work for you. Dr. Murphy changed the lives of people all over the world. He wrote, taught, counseled, and lectured to thousands who attended his sermons every Sunday. Millions tuned in his daily radio program and have read the over 30 books that he has written, which have sold over ten million copies worldwide.

Strength of Materials and Structures: An Introduction to the Mechanics of Solids and Structures provides an introduction to the application of basic ideas in solid and structural mechanics to engineering problems. This book begins with a simple discussion of stresses and strains in materials, structural components, and forms they take in tension, compression, and shear. The

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general properties of stress and strain and its application to a wide range of problems are also described, including shells, beams, and shafts. This text likewise considers an introduction to the important principle of virtual work and its two special forms—leading to strain energy and complementary energy. The last chapters are devoted to buckling, vibrations, and impact stresses. This publication is a good reference for engineering undergraduates who are in their first or second years.

Rock fractures control many of Earth's dynamic processes, including plate-boundary development, tectonic earthquakes, volcanic eruptions, and fluid transport in the crust. An understanding of rock fractures is also essential for effective exploitation of natural resources such as ground water, geothermal water, and petroleum. This book combines results from fracture mechanics, materials science, rock mechanics, structural geology, hydrogeology, and fluid mechanics to explore and explain fracture processes and fluid transport in the crust. Basic concepts are developed from first principles and illustrated with worked examples linking models of geological processes to real field observations and measurements. Many additional examples and exercises are provided online, allowing readers to practise formulating and quantitative testing of models. *Rock Fractures in Geological Processes* is designed for courses at the advanced undergraduate and graduate level but also forms a vital resource for researchers and industry professionals concerned with fractures and fluid transport in the Earth's crust.

The problems and exercises in *Strength and Stability* that exceed the bounds of the ordinary university course in complexity and their statement are considered. The advanced problems liberalizing the readers and all- ing to see the connection of the *Strength of Materials* with

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some adjacent courses are collected in this book. All the problems and exercises are -
compained with the detailed solutions. The set of new problems connected with the
development of computer methods and with the application of composite materials in
engineering are introduced in this publication. Author: Vsevolod I. Feodosiev Bauman Moscow
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Stress State, Strength Criteria, Anisotropy ::::: 195 4. Stability ::::::::::::::::::::
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:::::::::::::::::: 415 Preface This is a book, written by the famous late
Russian engineer and educator Vsevolod I.

Most texts claiming to trace the evolution of metaphysics do so according to the analytical
tradition, which understands metaphysics as a reflection of different categories of reality.
Incorporating the perspectives of Continental theory does little to expand this history, as the
Continental tradition remains largely hostile to such metaphysical claims. The first history of
metaphysics to respect both the analytical and Continental schools while also transcending the

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theoretical limitations of each, this compelling overview restores the value of metaphysics to contemporary audiences. Beginning with the Greeks and concluding with present day philosophers, Jean Grondin reviews seminal texts by the Presocratic Parmenides, Plato, Aristotle, Plotinus, and Augustine. He follows the theological turn in metaphysical thought during the middle ages and reads Avicenna, Anselm, Aquinas, and Duns Scot. Grondin revisits Descartes and the cogito; Spinoza and Leibniz's rationalist approaches; Kant's reclaiming of the metaphysical tradition; and postkantian practice up to Hegel. He engages with the twentieth-century innovations that shook the discipline, particularly Heidegger's notion of Being and the rediscovery of the metaphysics of existence (Sartre and the Existentialists), language (Gadamer and Derrida), and transcendence (Levinas). Metaphysics is often dismissed as a form or epoch of philosophy that must be overcome, yet a full understanding of its platform and processes reveal a cogent approach to reality, and its reasoning has been foundational to modern philosophy and science. Grondin reacquaints readers with the rich currents and countercurrents of metaphysical thinking and muses on where it may be headed in the twenty-first century.

For aeronautical, civil, and mechanical engineers. State-of-the-art and practical in perspective, this classic exploration of stress analysis focuses on techniques for analysis in realistic settings. Unusually comprehensive, it provides uniquely balanced coverage of mechanics of materials, theory of elasticity methods, and computer-oriented numerical methods all supported with a broad range of fully worked-out examples. The Fourth Edition adds/expands coverage of mechanics of materials theory; three-dimensional stress and strain transformations; strain energy in common structural members; stress concentration in typical

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members; elastic-plastic analysis of thick-walled cylinders; application of strain energy and variational methods to beams on elastic foundations, buckling of columns, and plates; a complete new set of illustrative examples and problems many taken from engineering practice; and tables covering computer programs for principal stresses and area properties, deflection of beams, material properties, and conversion factors.

Advances in Materials and Pavement Performance Prediction contains the papers presented at the International Conference on Advances in Materials and Pavement Performance Prediction (AM3P, Doha, Qatar, 16- 18 April 2018). There has been an increasing emphasis internationally in the design and construction of sustainable pavement systems. Advances in Materials and Pavement Prediction reflects this development highlighting various approaches to predict pavement performance. The contributions discuss links and interactions between material characterization methods, empirical predictions, mechanistic modeling, and statistically-sound calibration and validation methods. There is also emphasis on comparisons between modeling results and observed performance. The topics of the book include (but are not limited to):

- Experimental laboratory material characterization
- Field measurements and in situ material characterization
- Constitutive modeling and simulation
- Innovative pavement materials and interface systems
- Non-destructive measurement techniques
- Surface characterization, tire-surface interaction, pavement noise
- Pavement rehabilitation
- Case studies

Advances in Materials and Pavement Performance Prediction will be of interest to academics and engineers involved in pavement engineering.

THE MOST COMPLETE, UP-TO-DATE GUIDE TO STRESS AND STRAIN FORMULAS Fully revised throughout, Roark's Formulas for Stress and Strain, Eighth Edition, provides accurate

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and thorough tabulated formulations that can be applied to the stress analysis of a comprehensive range of structural components. All equations and diagrams of structural properties are presented in an easy-to-use, thumb, through format. This extensively updated edition contains new chapters on fatigue and fracture mechanics, stresses in fasteners and joints, composite materials, and biomechanics. Several chapters have been expanded and new topics have been added. Each chapter now concludes with a summary of tables and formulas for ease of reference. This is the definitive resource for designers, engineers, and analysts who need to calculate stress and strain management. ROARK'S FORMULAS FOR STRESS AND STRAIN, EIGHTH EDITION, COVERS: Behavior of bodies under stress Principles and analytical methods Numerical and experimental methods Tension, compression, shear, and combined stress Beams; flexure of straight bars Bending of curved beams Torsion Flat plates Columns and other compression members Shells of revolution; pressure vessels; pipes Bodies in contact undergoing direct bearing and shear stress Elastic stability Dynamic and temperature stresses Stress concentration factors Fatigue and fracture mechanics Stresses in fasteners and joints Composite materials Biomechanics

This book provides a broad and comprehensive coverage of the theoretical, experimental, and numerical techniques employed in the field of stress analysis. Designed to provide a clear transition from the topics of elementary to advanced mechanics of materials. Its broad range of coverage allows instructors to easily select many different topics for use in one or more courses. The highly readable writing style and mathematical clarity of the first edition are continued in this edition. Major revisions in this edition include: an expanded coverage of three-dimensional stress/strain transformations; additional topics from the theory of elasticity;

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examples and problems which test the mastery of the prerequisite elementary topics; clarified and additional topics from advanced mechanics of materials; new sections on fracture mechanics and structural stability; a completely rewritten chapter on the finite element method; a new chapter on finite element modeling techniques employed in practice when using commercial FEM software; and a significant increase in the number of end of chapter exercise problems some of which are oriented towards computer applications.

Designed for a first course in strength of materials, Applied Strength of Materials has long been the bestseller for Engineering Technology programs because of its comprehensive coverage, and its emphasis on sound fundamentals, applications, and problem-solving techniques. The combination of clear and consistent problem-solving techniques, numerous end-of-chapter problems, and the integration of both analysis and design approaches to strength of materials principles prepares students for subsequent courses and professional practice. The fully updated Sixth Edition. Built around an educational philosophy that stresses active learning, consistent reinforcement of key concepts, and a strong visual component, Applied Strength of Materials, Sixth Edition continues to offer the readers the most thorough and understandable approach to mechanics of materials.

This book presents both differential equation and integral formulations of boundary value problems for computing the stress and displacement fields of solid bodies at two levels of approximation - isotropic linear theory of elasticity as well as theories of mechanics of materials. Moreover, the book applies these formulations to practical solutions in detailed, easy-to-follow examples. Advanced Mechanics of Materials and Applied Elasticity presents modern and classical methods of analysis in current notation and in the context of current practices.

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The author's well-balanced choice of topics, clear and direct presentation, and emphasis on the integration of sophisticated mathematics with practical examples offer students in civil, mechanical, and aerospace engineering an unparalleled guide and reference for courses in advanced mechanics of materials, stress analysis, elasticity, and energy methods in structural analysis.

Advanced Strength and Applied Stress Analysis McGraw-Hill Science Engineering

This text offers readers a practical discussion of stress and how to cope with it. Targeted towards college students, but applicable to everyone, it provides insights and easily implemented suggestions for dealing with stress and focuses on optimism, gratitude, altruism and resiliency.

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