

## Applied Biopharmaceutics And Pharmacokinetics 5th Edition Free

Mastery of pharmacokinetics is more important than ever. To exercise the best possible judgment in patient care, medication plans should be selected for the maximum efficacy and safety for each individual patient. Be confident in your approach with ASHP's Basic & Applied Pharmacokinetics Self Assessment, a new resource from John E. Murphy, author of ASHP's Clinical Pharmacokinetics, Fifth Edition, which offers questions and exercises with answers and detailed solutions to help gauge your understanding. Whether you are a student, a new pharmacist, or a long-time practitioner, it is essential that you not only acquire and maintain your therapeutic knowledge, but also stay on top of new developments in pharmacokinetics. This is a valuable review book designed to test skills for using equations and the application of pharmacokinetic parameters. It is the perfect book to review content you have learned and practiced, in addition to learning new areas not previously covered in your training. As an added feature, the YouTube channel, Basic & Applied Pharmacokinetics Self Assessment Videos, is available as a complementary companion to the book, which includes a library of videos created by John Murphy to help you through the major pain points and help further support your self assessment.

New sections on dosing strategies in all chapters. New chapter on sirolimus under the Immunosuppressants section. Essential information on drug dosing in special populations, including patients with renal and hepatic disease, obesity, and congestive heart failure. 30% of chapters extensively revised, others lightly updated

This is an authoritative, comprehensive book on the fate of drug molecules in the body, including implications for pharmacological and clinical effects. The text provides a unique, balanced approach, examining the specific physical and biological factors affecting the absorption, distribution, metabolism and excretion of drugs, together with mathematical assessment of the concentrations in plasma and body fluids.

Understanding the equations requires little more than a basic knowledge of algebra, laws of indices and logarithms, and very simple calculus. A companion web site contains additional illustrations, further equations and numerous worked examples.

Whilst this book has its roots in the highly acclaimed book of the same name, written by Stephen Curry nearly thirty years ago, it is essentially a new book having been restructured and largely rewritten. This readable and informative book is an invaluable resource for professionals and students needing to develop a rational approach to the investigation and application of drugs.

The field of pharmaceutical biotechnology is evolving rapidly. A whole new arsenal of protein pharmaceuticals is being produced by recombinant techniques for cancer, viral infections, cardiovascular and hereditary disorders, and other diseases. In addition, scientists are confronted with new technologies such as polymerase chain reactions, combinatorial chemistry and gene therapy. This introductory textbook provides extensive coverage of both the basic science and the applications of biotechnology-produced pharmaceuticals, with special emphasis on their clinical use. Pharmaceutical Biotechnology serves as a complete one-stop source for undergraduate pharmacists, and it is valuable for researchers and professionals in the pharmaceutical industry as well.

Updated with the latest clinical advances, Rowland and Tozer's Clinical Pharmacokinetics and Pharmacodynamics, Fifth Edition, explains the relationship between drug administration and drug response, taking a conceptual approach that emphasizes clinical application rather than science and mathematics. Bringing a real-life perspective to the topic, the book simplifies concepts and gives readers the knowledge they need to better evaluate drug applications.

With over 100 illustrations, Volume 1 addresses the core disciplines of pharmaceuticals (absorption, PK, excipients, tablet dosage forms, and packaging), and explores the challenges and paradigms of pharmaceuticals. Key topics in Volume 1 include:

- principles of drug absorption, chemical kinetics, and drug stability
- pharmacokinetics
- the effect of route of administration and distribution on drug action
- in vivo imaging of dose forms: gamma scintigraphy, PET imaging NMR, MRI, etc.
- powder technology
- excipient design and characterization
- preformulation
- optimization techniques in pharmaceutical formulation and processing
- disperse and surfactant systems
- the solid state, tablet dosage forms, coating processes, and hard and soft shell capsules
- parenteral products

Absorption, Distribution, Metabolism and Excretion (ADME) processes and their relationship with the design of dosage forms and the success of pharmacotherapy form the basis of this upper level undergraduate/graduate textbook. As an introduction oriented to pharmacy students, it is also written for scientist from different fields outside of pharmaceuticals. (e.g. material scientist, material engineers, medicinal chemists) who might be working in a positions in pharmaceutical companies or whose work might benefit from basic training in the ADME concepts and some biological background. Pedagogical features such as objectives, keywords, discussion questions, summaries and case studies add valuable teaching tools. This book will provide not only general knowledge on ADME processes but also an updated insight on some hot topics such as drug transporters, multi-drug resistance related to pharmacokinetic phenomena, last generation pharmaceutical carriers (nanopharmaceuticals), in vitro and in vivo bioequivalence studies, biopharmaceuticals, pharmacogenomics, drug-drug and food-drug interactions, and in silico and in vitro prediction of ADME properties. In comparison with other similar textbooks, around half of the volume would be focused on the relationship between expanding scientific fields and ADME processes. Each of these burgeoning fields has a separate chapter in the second part of the volume, and was written with leading experts on the correspondent topic, including scientists and academics from USA and UK (Duquesne University School of Pharmacy, Indiana University School of Medicine, University of Utah College of Pharmacy, University of Maryland, University of Bath). Additionally, each of the initial chapters dealing with the generalities of drug absorption, distribution, metabolism and excretion would include relevant, classic examples related to each topic with appropriate illustrations (e.g. importance of active absorption of levodopa, implications in levodopa administration, drug drug interactions and food drug interactions emerging from the active uptake; intoxication with paracetamol as a result of glutathione depletion, CYP induction and its relationship with acute liver failure caused by paracetamol, etc). ADME Processes and Pharmaceutical Sciences is written as a core textbook for ADME processes, pharmacy, pharmacokinetics, drug delivery, biopharmaceutics, drug disposition, drug design and medicinal chemistry courses.

This book guides medicinal chemists in how to implement early ADMET testing in their workflow in order to improve both the speed and efficiency of their efforts. Although many pharmaceutical companies have dedicated groups directly interfacing with drug discovery, the scientific principles and strategies are practiced in a variety of different ways. This book answers the need to regularize the drug discovery interface; it defines and reviews the field of ADME for medicinal chemists. In addition, the scientific principles and the tools utilized by ADME scientists in a discovery setting, as applied to medicinal chemistry and structure modification to improve drug-like properties of drug candidates, are examined.

The British Pharmacopoeia (BP) 2013 is the authoritative, current collection of standards for UK medicinal substances and the official source of all UK pharmaceutical quality standards. It is an essential reference for anyone involved in pharmaceutical research, development, manufacture and testing, and plays a vital role in ensuring that all medicinal substances on the UK market meet standards of safety, quality and efficacy. The BP comprises monographs, which set out the mandatory standards for active substances, excipients and formulated preparations, together with supporting General Notices, Appendices (test methods, reagents, etc) and Reference Spectra. Detailed information and guidance on various aspects of current pharmacopoeial policy and practice are provided in the Supplementary Chapters of the BP. The BP is supplied in a variety of formats designed for ease of use and a wide range of applications. The hard copy edition package comprises a boxed six volume set containing BP in five volumes and the BP (Veterinary) volume, plus single user access to the CD-ROM and BP Online via [www.pharmacopoeia.co.uk](http://www.pharmacopoeia.co.uk), the dedicated BP website. The online format is easy to network, allowing access for a specified number of users or across an entire organisation site.

Pharmacology meets the rapidly emerging needs of programs training pharmacologic scientists seeking careers in basic research and drug discovery rather than such applied fields as pharmacy and medicine. While the market is crowded with many clinical and therapeutic pharmacology textbooks, the field of pharmacology is booming with the prospects of discovering new drugs, and virtually no extant textbook meets this need at the student level. The market is so bereft of such approaches that many pharmaceutical companies will adopt Hacker et al. to help train new drug researchers. The boom in pharmacology is driven by the recent decryption of the human genome and enormous progress in controlling genes and synthesizing proteins, making new and even custom drug design possible. This book makes use of these discoveries in presenting its topics, moving logically from drug receptors to the target molecules drug researchers seek, covering such modern topics along the way as side effects, drug resistance, pharmacogenomics, and even nutraceuticals, one in a string of culminating chapters on the drug discovery process. The book is aimed at advanced undergraduates and beginning graduate students in medical, pharmacy, and graduate schools looking for a solid introduction to the basic science of pharmacology and envisioning careers in drug research. Uses individual drugs to explain molecular actions Full color art program explains molecular and chemical concepts graphically Logical structure reflecting the current state of pharmacology and translational research Covers such intricacies as drug resistance and cell death Consistent format across chapters and pedagogical strategies make this textbook a superior learning tool

The extensively updated third edition of *Pediatric Epilepsy: Diagnosis and Therapy* continues to be the definitive volume on the diagnosis, treatment, classification, and management of the childhood epilepsies. Written by nearly 100 international leaders in the field, this new edition progresses logically with major sections on the basic mechanisms of the disease, classification, epidemiology, etiology, diagnosis, and age-related syndromes of epilepsy. The core of the new third edition is its completely updated section on antiepileptic drugs, including an in-depth discussion of dosage considerations, drug toxicity, teratogenicity, and drug interactions, with recommendations for optimal combinations when multiple drug therapy is required. Features unique to the third edition include: Expanded section on the basic science and mechanism of epilepsy Completely updated drug chapters, including newly released drugs and those in development Expanded chapters on vagus nerve stimulation and surgical treatment Expanded section on co-morbidities The third edition includes 21 new chapters, including discussions of: epileptic channelopathies; epileptogenic cerebral cortical malformation; epilepsy genes; etiologies and workup; evidence-based medicine issues related to drug selection; Levetiracetam; Sulthiame; Pregabalin; herbal medications; basic and advanced imaging; immunotherapy issues; vagus nerve stimulation therapy; cognitive and psychiatric co-morbidities and educational placement; and psychosocial aspects of epilepsy.

*Applied Biopharmaceutics & Pharmacokinetics, Fifth Edition* McGraw Hill Professional Now in a revised edition, *Comparative Pharmacokinetics: Principles, Techniques, and Applications* presents the principles and techniques of comparative and veterinary pharmacokinetics in a detailed yet practical manner. Developed as a tool for ensuring that pharmacokinetics studies are properly designed and correctly interpreted, the book provides complete coverage of the conceptual basis of pharmacokinetics as used for quantifying biological processes from the perspectives of physiology and medicine. New chapters have been added on quantitative structure permeability relationships and bioequivalence, and a number of existing chapters have been significantly revised and expanded to provide a current resource for veterinary and comparative pharmacokinetics.

The most comprehensive text on the practical applications of biopharmaceuticals and pharmacokinetics! 4 STAR DOODY'S REVIEW! "The updated edition provides the reader with a solid foundation in the basic principles of pharmacokinetics and biopharmaceutics. Students will be able to apply the information to their clinical practice and researchers will find this to be a valuable reference. This modestly priced book should be the gold standard for student use."--Doody's Review Service The primary emphasis of this book is on the application and understanding of concepts. Basic theoretical discussions of the principles of biopharmaceutics and pharmacokinetics are provided, along with illustrative examples and practice problems and solutions to help the student gain skill in practical problem solving.

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Updated with new chapters and topics, this book provides a comprehensive description of all essential topics in contemporary pharmacokinetics and pharmacodynamics. It

also features interactive computer simulations for students to experiment and observe PK/PD models in action. • Presents the essentials of pharmacokinetics and pharmacodynamics in a clear and progressive manner • Helps students better appreciate important concepts and gain a greater understanding of the mechanism of action of drugs by reinforcing practical applications in both the book and the computer modules • Features interactive computer simulations, available online through a companion website at: <https://web.uri.edu/pharmacy/research/rosenbaum/sims/> • Adds new chapters on physiologically based pharmacokinetic models, predicting drug-drug interactions, and pharmacogenetics while also strengthening original chapters to better prepare students for more advanced applications • Reviews of the 1st edition: "This is an ideal textbook for those starting out ... and also for use as a reference book ...." (International Society for the Study of Xenobiotics) and "I could recommend Rosenbaum's book for pharmacology students because it is written from a perspective of drug action . . . Overall, this is a well-written introduction to PK/PD ...." (British Toxicology Society Newsletter)

The latest edition of this highly acclaimed textbook, provides a comprehensive and up-to-date overview of the science and medical applications of biopharmaceutical products. Biopharmaceuticals refers to pharmaceutical substances derived from biological sources, and increasingly, it is synonymous with 'newer' pharmaceutical substances derived from genetic engineering or hybridoma technology. This superbly written review of the important areas of investigation in the field, covers drug production, plus the biochemical and molecular mechanisms of action together with the biotechnology of major biopharmaceutical types on the market or currently under development. There is also additional material reflecting both the technical advances in the area and detailed information on key topics such as the influence of genomics on drug discovery.

This is a revised and very expanded version of the previous second edition of the book. "Pharmacokinetic and Pharmacodynamic Data Analysis" provides an introduction into pharmacokinetic and pharmacodynamic concepts using simple illustrations and reasoning. It describes ways in which pharmacodynamic and pharmacodynamic theory may be used to give insight into modeling questions and how these questions can in turn lead to new knowledge. This book differentiates itself from other texts in this area in that it bridges the gap between relevant theory and the actual application of the theory to real life situations. The book is divided into two parts; the first introduces fundamental principles of PK and PD concepts, and principles of mathematical modeling, while the second provides case studies obtained from drug industry and academia. Topics included in the first part include a discussion of the statistical principles of model fitting, including how to assess the adequacy of the fit of a model, as well as strategies for selection of time points to be included in the design of a study. The first part also introduces basic pharmacokinetic and pharmacodynamic concepts, including an excellent discussion of effect compartment (link) models as well as indirect response models. The second part of the text includes over 70 modeling case studies. These include a discussion of the selection of the model, derivation of initial parameter estimates and interpretation of the corresponding output. Finally, the authors discuss a number of pharmacodynamic modeling situations including receptor binding models, synergy, and tolerance models (feedback and precursor models). This book will be of

interest to researchers, to graduate students and advanced undergraduate students in the PK/PD area who wish to learn how to analyze biological data and build models and to become familiar with new areas of application. In addition, the text will be of interest to toxicologists interested in learning about determinants of exposure and performing toxicokinetic modeling. The inclusion of the numerous exercises and models makes it an excellent primary or adjunct text for traditional PK courses taught in pharmacy and medical schools. A diskette is included with the text that includes all of the exercises and solutions using WinNonlin.

Effective drug administration is a crucial skill for any practitioner working in the critical care unit. This book, in providing a concise account of the fundamental principles of pharmacology and pharmacokinetics, equips the critical care physician for such a task. In addition to the principles of pharmacology and pharmacokinetics, this volume alerts the reader to factors that affect drug action such as disease, pregnancy and age, and advises on how to adjust drug dosages accordingly. The specialist therapeutics covered comprise drugs targeting the gastro-intestinal tract, sedation, non-opioid analgesia and opiates. A quick and easy reference, this volume will prove a valuable asset for both trainees and fully qualified practitioners in critical care.

The third edition of this introductory text covers the factors which influence the release of the drug from the drug product and how the body handles the drug. A stronger focus has been placed on the basics with clear explanations and illustrated examples. There is also more information on statistics and population pharmacokinetics and new chapters on drug distribution, computer applications, enzyme kinetics and pharmacokinetics models.

Extensive coverage of the Internet as a source of and distribution means for drug information, and detailed sections on evaluating medical literature from clinical trials Audience includes Pharmacists, Pharmacy students and Pharmacy schools Updated to include using PDAs for medication information Covers the ethical and legal aspects of drug information management Nothing else like it on the market

The Sixth Edition of this best-selling text includes updates to account for new legal, regulatory and policy developments. Pharmacy Practice and the Law, Sixth Edition provides background, history and discussion of the law so as to enable the student to not only learn the facts, but to help them understand, apply and critically evaluate the information. The issues covered in this text are discussed in non-legal, easy to understand language. Challenging open-ended discussion questions and edited cases are included in every chapter to facilitate discussion and critical thinking. Citations to all laws, court cases, regulations and other documents are provided. An online instructor's manual is available. Pharmacy Practice and the Law, Sixth Edition, is a useful resource both for teaching the facts of pharmacy law and for stimulating critical thinking issues in pharmacy law. With its clear, straightforward presentation, this text enables you to grasp all the fundamental concepts of pharmacokinetics and pharmacodynamics. This will allow you to understand the time course of drug response and dosing regimen design. Clinical models for concentration and response are described and built from the basic concepts presented in earlier chapters. Your understanding of the material will be enhanced by guided computer exercises conducted on a

companion website. Simulations will allow you to visualize drug behavior, experiment with different dosing regimens, and observe the influence of patient characteristics and model parameters. This makes the book ideal for self-study. By including clinical models of agonism, indirect drug effects, tolerance, signal transduction, and disease progression, author Sara Rosenbaum has created a work that stands out among introductory-level textbooks in this area. You'll find several features throughout the text to help you better understand and apply key concepts: Three fictitious drugs are used throughout the text to progressively illustrate the development and application of pharmacokinetic and pharmacodynamic principles Exercises at the end of each chapter reinforce the concepts and provide the opportunity to perform and solve common dosing problems Detailed instructions let you create custom Excel worksheets to perform simple pharmacokinetic analyses Because this is an introductory textbook, the material is presented as simply as possible. As a result, you'll find it easy to gain an accurate, working knowledge of all the core principles, apply them to optimize dosing regimens, and evaluate the clinical pharmacokinetic and pharmacodynamic literature.

Concepts in Clinical Pharmacokinetics has helped thousands of students and practitioners through five editions by simplifying a complex subject. The authors have thoroughly reviewed, revised, and redesigned the text to enhance the reader's grasp of the material. This 6th Edition offers a superior approach to understanding pharmacokinetics through extensive use of clinical correlates, figures, and questions and answers. Inside you will find: Content broken into 15 easy-to-follow lessons, perfect for a semester. Practice quizzes in 11 chapters to chart progress. Four chapters completely devoted to clinical cases. More information on hemodialysis More on pharmacogenetics More on plasma concentration versus time curve (AUC) calculations A phenytoin "cheat sheet" to help you through the calculations maze New vancomycin cases based on higher desired vancomycin levels and trough-only dose estimations More on modified diet in renal disease (MDRD) formula versus Cockcroft-Gault (CG) formula methods More theory and problems on extended interval aminoglycosides. - See more at: <http://store.ashp.org/Store/ProductListing/ProductDetails.aspx?productId=153117615#sthash.58RrToYW.dpu> Concepts in Clinical Pharmacokinetics has helped thousands of students and practitioners through five editions by simplifying a complex subject. The authors have thoroughly reviewed, revised, and redesigned the text to enhance the reader's grasp of the material. This 6th Edition offers a superior approach to understanding pharmacokinetics through extensive use of clinical correlates, figures, and questions and answers. Inside you will find: Content broken into 15 easy-to-follow lessons, perfect for a semester. Practice quizzes in 11 chapters to chart progress. Four chapters completely devoted to clinical cases. More information on hemodialysis More on pharmacogenetics More on plasma concentration versus time curve (AUC) calculations A phenytoin "cheat sheet" to help you through the calculations maze

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This book continues to be the definitive reference on drug metabolism with an emphasis on new scientific and regulatory developments. It has been updated based on developments that have occurred in the last 5 years, with new chapters on large molecules disposition, stereo-selectivity in drug metabolism, drug transporters and metabolic activation of drugs. Some chapters have been prepared by new authors who have emerged as subject area experts in the decade that has passed since publication of the first edition.

This book deals with the basics, of the two disciplines of biopharmaceutics and pharmacokinetics. Different factors such as biological, physiochemical and formulation that influence the therapeutic efficacy of a drug are covered in biopharmaceutics. The absorption, distribution, metabolism and excretion of drugs are studied under this subject. Basics of biopharmaceutics and pharmacokinetics help to understand the various procedures and advances in drug design, product development, therapeutic drug monitoring, etc. The pharmacokinetics part of this book covers the fundamentals of one compartment open model, multi-compartmental models. One compartment open model is presented in an elaborate manner to make the students familiar with various aspects of pharmacokinetics. Mathematical equations are developed using simple integration and differentiation methods to enable the students to understand the concepts easily. Practice problems are provided where ever

necessary, and a question bank is included at the end of each chapter to enhance student s knowledge. Extreme care has been exercised to present the concepts in a simple way. Every biological scientist should have knowledge in statistics in order to assess the significance of the results of his experiments. Hence, a chapter on biostatistics with practice problems is included in the book. Introduction to Health Care Delivery:A Primer for Pharmacists, Fifth Edition provides students with a current and comprehensive overview of the U.S. health care delivery system from the perspective of the pharmacy profession. Each thoroughly updated chapter of this best-selling text includes real-world case studies, learning objectives, chapter review questions, questions for further discussion, and updated key topics and terms. New and expanded topics include public health, pharmacoepidemiology, cultural competence, and leadership. Patient-Provider dialogues are also included to help students apply key concepts. Instructor Resources include a Transition Guide, PowerPoint Presentations, and an Instructor's Manual. Key Features • Case Scenario per Chapter • Learning Objectives • Chapter Review Questions • Doctor/Patient Scripts • Questions for Further Discussion • References Each new textbook includes an online code to access the Student Resources available on the Companion Website. Online access may also be purchased separately. \*Please note: Electronic/eBook formats do not include access to the Companion Website.

Pharmaceutics is one of the most diverse subject areas in all of pharmaceutical science. In brief, it is concerned with the scientific and technological aspects of the design and manufacture of dosage forms or medicines. An understanding of pharmaceutics is therefore vital for all pharmacists and those pharmaceutical scientists who are involved with converting a drug or a potential drug into a medicine that can be delivered safely, effectively and conveniently to the patient. Now in its fourth edition, this best-selling textbook in pharmaceutics has been brought completely up to date to reflect the rapid advances in delivery methodologies by eye and injection, advances in drug formulations and delivery methods for special groups (such as children and the elderly), nanomedicine, and pharmacognosy. At the same time the editors have striven to maintain the accessibility of the text for students of pharmacy, preserving the balance between being a suitably pitched introductory text and a clear reflection of the state of the art. provides a logical, comprehensive account of drug design and manufacture includes the science of formulation and drug delivery designed and written for newcomers to the design of dosage forms New to this edition New editor: Kevin Taylor, Professor of Clinical Pharmaceutics, School of Pharmacy, University of London. Twenty-two new contributors. Six new chapters covering parenteral and ocular delivery; design and administration of medicines for the children and elderly; the latest in plant medicines; nanotechnology and nanomedicines, and the delivery of biopharmaceuticals. Thoroughly revised and updated throughout. This handbook features contributions from a team of expert authors representing the many disciplines within science, engineering, and technology that are involved in pharmaceutical

manufacturing. They provide the information and tools you need to design, implement, operate, and troubleshoot a pharmaceutical manufacturing system. The editor, with more than thirty years' experience working with pharmaceutical and biotechnology companies, carefully reviewed all the chapters to ensure that each one is thorough, accurate, and clear.

This practical reference guide from experts in the field details why and how to establish successful antibiotic stewardship programs.

This is an essential guide to the study of absorption, distribution, metabolism and elimination of drugs in the body.

Provides the reader with a basic understanding of the principles of biopharmaceutics and pharmacokinetics as applied to drug product development and drug therapy. The revised and updated fifth edition of this popular text remains unique in teaching the student the basic concepts that may be applied to understanding the complex issues associated with the processes of drug delivery and the essentials of safe and effective drug therapy.

Blood pumping through our veins is a vital example of Poiseuille flow; the act of running requires friction to propel the runner forward; and the quality of our eyesight demonstrates how properties of light enable us to correct near- and far-sightedness. --

Rev. ed. of: Clinical pharmacokinetics. 1995.

Essentials of Biopharmaceutics and Pharmacokinetics Kar's Essentials of Biopharmaceutics and Pharmacokinetics deals with how a drug exerts its action in the human body through the fundamentals of absorption, distribution, metabolism and excretion. The book adopts a growth-oriented format and design that is developed systematically and methodically. The book interrelates five different sections: Section 1 Biopharmaceutics and Pharmacokinetics: What Do They Mean? Section 2 Biopharmaceutics Section 3 Pharmacokinetics Section 4 Clinical Pharmacokinetics Section 5 Bioavailability and Bioequivalence Each section starts with a basic theory and fields of application, focuses on model-independent pharmacokinetic analyses, expatiates various biopharmaceutical aspects of dosage form and evaluation, provides an altogether new approach in understanding both dosage regimen design and individualization, and explains modification in drug molecules related to the pharmacokinetics. Undoubtedly, the unique blend of fundamental principles and latest breakthroughs in the field will certainly provide sufficient subject matter to the students of pharmacy, pharmacology, medicinal chemistry scientists, who need a simple as well as detailed introduction in theory and application.

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