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The general field of fundamental and applied biotechnology becomes increasingly important for the production of biologicals for human and veterinary use, by using prokaryotic and eukaryotic microorganisms. The papers in the present book are refereed articles compiled from oral and poster presentations from the EFB Meeting on Recombinant Protein Production with Prokaryotic and Eukaryotic Cells. A Comparative View on Host Physiology, which was organized in Semmering/A from 5th to 8th October 2000. A special feature of this meeting was the comparison of different classes of host cells, mainly bacteria, yeasts, filamentous fungi, and animal cells, which made obvious that many physiological features of recombinant protein formation, like cell nutrition, stress responses, protein folding and secretion, or genetic stability, follow similar patterns in different expression systems. This comparative aspect is by far the point of most interest because such comparisons are rarely done, and if they are done, their results are most often kept secret by the companies who generated them. Audience: Presently, a comparable book does not exist because the compiling of manuscripts from all fields of biotechnology (prokaryotic as well as eukaryotic, up to animal cell biotechnology) is not done in general. This particularity makes this book very interesting for postgraduate students and professionals in the large field of biotechnology who want to get a more global view on the current state of the expression of recombinant biologicals in different host cell systems, the physiological problems associated with the use of

different expression systems, potential approaches to solve such difficulties by metabolic engineering or the use of other host cells, and the cooperation between process development and strain improvement, which is crucial for the optimisation of both the production strain and the process. This book should be in every library of an institution/organization involved in biotechnology.

The Japanese game of Go is of interest both as a problem in mathematical representation and as a game which generates a move tree with an extraordinarily high branching factor (100 to 300 branches per ply). The complexity of Go (and the difficulty of Go for human players) is thought to be considerably greater than that of chess. The constraints of being able to play a complete game and of being able to produce a move with a moderate amount of processing time were placed on the solution. The basic approach used was to find methods for isolating and exploring several sorts of relevant subsections of the global game tree. This process depended heavily on the ability to define and manipulate entities of Go as recursive functions rather than as patterns of stones. A general machine-accessible theory of Go was developed to provide context for program evaluations. A program for playing Go is now available on the Stanford PDP-10 computer. (Modified author abstract).

This book brings together information which is used by engineers, and needed especially by students of engineering, but difficult to find in a collected form. In this respect engineering, perhaps because it is more often divided into separate branches, has so far been less well served than the other physical sciences; we hope to have in part redressed the balance. The contents are designed chiefly for engineering

students of all kinds in universities and colleges, but they should also prove useful to practising engineers as a general reference. There was some difficulty in choosing numerical values for parts of the section Properties of Matter. Information was culled from a range of sources which sometimes show an alarming lack of consistency. Given a choice, we have used values which are either average or more likely to be reliable. The degree of tolerance required varies very widely between, for example, the precision to which thermodynamic properties of steam are known and the uncertainty in those mechanical properties of solids which depend strongly on quality and preparation. The tables on pages 4-12 inclusive are reproduced from S.M.P. Advanced Tables by permission of Cambridge University Press. The tables on pages 35 and 36 are reproduced from Elementary Statistical Tables: Lindley and Miller, h./ permission of Cambridge University Press. The tables on pages 37 and 38 are reproduced by permission of the Biometrika Trustees.

JNCI

Paving the way towards 5G

LTE Optimization Engineering Handbook

Recombinant Protein Production with Prokaryotic and Eukaryotic Cells. A

Comparative View on Host Physiology

Protein Engineering and Design

Recombinant protein expression in microbial systems

*******Text is available as of 5/21/2004!***** *Dunn's Measurement and Data Analysis for Engineering & Science places emphasis on the process of***

experimentation, rather than the products of experimentation. Dunn's objective is to expose undergraduates and experimentalists to the essential tools of experimentation, to the scientific detail behind these tools, and to the role of experimentation in the scientific process. Guided by worked examples, MATLAB sidebars, and laboratory exercises, the reader builds a strong working knowledge while moving progressively through the text. The first three chapters of the text cover the basics--experimental methods, units & significant figures, technical communications and basic electronics. Hardware issues are then presented, with a focus on measurement systems, and calibration & response. The final chapters deal with data analysis, with an overview of basic probability & statistics, uncertainty analysis, signal characteristics, and digital signal analysis. Following the text chapters, a full laboratory manual, with an introduction and twelve lab experiments, is included. This gives users a chance to put their basic skills to work in actual engineering experiments, which are taken from a variety of engineering subject areas. Throughout the book computer techniques are discussed, and specific MATLAB applications are included, for problem modeling, exploration and solution. MATLAB "sidebars" are used to present MATLAB, and associated M-files are provided on the Web site.

Intended "to establish a standard for the accurate and effective communication of the language of the health care professions." Contains over 60,000 words with syllabication, plural forms, and alternate or variant forms. Appendixes include abbreviations, measurement unit, prefixes, and suffixes.

This is the second of two volumes containing the revised and completed notes of lectures given at the school "Quantum Independent Increment Processes: Structure and Applications to Physics". This school was held at the Alfried-Krupp-Wissenschaftskolleg in Greifswald in March, 2003, and supported by the Volkswagen Foundation. The school gave an introduction to current research on quantum independent increment processes aimed at graduate students and non-specialists working in classical and quantum probability, operator algebras, and mathematical physics. The present second volume contains the following lectures: "Random Walks on Finite Quantum Groups" by Uwe Franz and Rolf Gohm, "Quantum Markov Processes and Applications in Physics" by Burkhard Kümmerer, "Classical and Free Infinite Divisibility and Lévy Processes" by Ole E. Barndorff-Nielsen, Steen Thorbjørnsen, and "Lévy Processes on Quantum Groups and Dual Groups" by Uwe Franz.

Medicine at a Glance

A Standard Dictionary of the English Language, Upon Original Plans ...

Air Force bases.

A Practical and Scientific Encyclopedia of Horticulture for Gardeners and Botanists

Memristor Technology: Synthesis and Modeling for Sensing and Security Applications

Molecular Biotechnology

Essential reference providing best practice of LTE-A, VoLTE, and IoT

Design/deployment/Performance and evolution towards 5G This book is a practical guide to the design, deployment, and performance of LTE-A, VoLTE/IMS and IoT. A comprehensive practical performance analysis for VoLTE is conducted based on field measurement results from live LTE networks. Also, it provides a comprehensive introduction to IoT and 5G evolutions. Practical aspects and best practice of LTE-A/IMS/VoLTE/IoT are presented. Practical aspects of LTE-Advanced features are presented. In addition, LTE/LTE-A network capacity dimensioning and analysis are demonstrated based on live LTE/LTE-A networks KPIs. A comprehensive foundation for 5G technologies is provided including massive MIMO, eMBB, URLLC, mMTC, NGCN and network slicing, cloudification, virtualization and SDN. Practical Guide to LTE-A, VoLTE and IoT: Paving the Way Towards 5G can be used as a practical comprehensive guide for best practices in LTE/LTE-A/VoLTE/IoT design, deployment, performance analysis and network architecture and dimensioning. It offers tutorial introduction on LTE-A/IoT/5G networks, enabling the reader to use this advanced book without the need to refer to more introductory texts. Offers a complete overview of LTE and LTE-A, IMS, VoLTE and IoT and 5G Introduces readers to IP Multimedia Subsystems (IMS) Performs a comprehensive evaluation of VoLTE/CSFB Provides LTE/LTE-A network capacity and dimensioning Examines IoT and 5G evolutions towards a super connected world Introduce 3GPP NB-IoT evolution for low power wide area (LPWA) network Provide a comprehensive introduction for 5G evolution including eMBB, URLLC, mMTC, network slicing, cloudification, virtualization, SDN and orchestration Practical Guide to LTE-A, VoLTE and IoT will appeal to all deployment and service engineers, network designers,

and planning and optimization engineers working in mobile communications. Also, it is a practical guide for R&D and standardization experts to evolve the LTE/LTE-A, VoLTE and IoT towards 5G evolution.

A revision textbook covering the core information relevant to clinical medicine, this work is divided into over 60 clinical presentations and 150 common diseases.

Poncelet's theorem is a famous result in algebraic geometry, dating to the early part of the nineteenth century. It concerns closed polygons inscribed in one conic and circumscribed about another. The theorem is of great depth in that it relates to a large and diverse body of mathematics. There are several proofs of the theorem, none of which is elementary. A particularly attractive feature of the theorem, which is easily understood but difficult to prove, is that it serves as a prism through which one can learn and appreciate a lot of beautiful mathematics. The author's original research in queuing theory and dynamical systems figures prominently in the book. This book stresses the modern approach to the subject and contains much material not previously available in book form. It also discusses the relation between Poncelet's theorem and some aspects of queueing theory and mathematical billiards. The proof of Poncelet's theorem presented in this book relates it to the theory of elliptic curves and exploits the fact that such curves are endowed with a group structure. The book also treats the real and degenerate cases of Poncelet's theorem. These cases are interesting in themselves, and their proofs require some other considerations. The real case is handled by employing notions from dynamical systems. The material in this book should be understandable to anyone who has taken the standard courses in undergraduate

mathematics. To achieve this, the author has included in the book preliminary chapters dealing with projective geometry, Riemann surfaces, elliptic functions, and elliptic curves. The book also contains numerous figures illustrating various geometric concepts.

Functional Directory

Unlocking the Secrets of Biotechnology

Quantum Independent Increment Processes II

Kinanthropometry and Exercise Physiology Laboratory Manual: Exercise physiology, tests, procedures and data

Everything You Need to Know About Our Planet Today

A rhyming dictionary ... Fourth edition, improved

Cupriavidus—Advances in Research and Application: 2012 Edition is a ScholarlyPaper™ that delivers timely, authoritative, and intensively focused information about Cupriavidus in a compact format. The editors have built Cupriavidus—Advances in Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Cupriavidus in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and

relevant. The content of Cupriavidus—Advances in Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Explore the world with the Reference World Atlas, 10th Edition, with over 640 maps and a wealth of information on the world's 196 nations. This indispensable atlas includes large-scale 3D maps and over 750 photographs to illustrate the most spectacular locations on the planet. Stretching across the globe from the British Isles to the Pacific Ocean, continental and regional maps are complemented by terrain models, cross-sections and thematic maps, providing additional information to help you understand the geography and culture of each region. With an index of over 80,000 entries, this is the

essential reference atlas for any business, home, and school. This 10th edition of the Reference World Atlas is fully updated to incorporate recent border, place name and flag changes around the globe, offering a complete and unrivalled picture of the earth today. Previous Edition ISBN 9781409376392

Soil Survey ... Montgomery County Tennessee Military Construction Appropriations for 1974 Hearings; Ninety-third Congress, First Session A.I.D. Research and Development Abstracts A Standard Dictionary of the English Language, Upon Original Plans ... Poncelet's Theorem American Mathematical Soc.

Anti-Indian Violence

Principles and Applications of Recombinant DNA

In Which, I. The Whole LANGUAGE is Arranged According to Its TERMINATIONS II. Every WORD is Explained and Divided Into SYLLABLES Exactly as Pronounced. III. Multitudes of WORDS Liable to a DOUBLE PRONUNCIATION are Fixed in Their TRUE SOUND by a Rhyme. IV. Several Words of Established Usage, Not to be Found in Our Best Dictionaries, are Inserted, and

Most Difficult Words Rendered Easy to be Pronounced by Being Classed According to Their Endings. TO WHICH IS PREFIXED A Copious INTRODUCTION to the Various Uses of the Work, with Critical and Practical OBSERVATIONS on Orthography, Syllabication, Pronunciation, and Rhyme; And for the Purposes of Poetry is Added an INDEX of ALLOWABLE RHYMES. With Authorities for Their Usage from Our Best Authors Measurement and Data Analysis for Engineering and Science

Dorland's Illustrated Medical Dictionary E-Book

Since 1994, *Molecular Biotechnology: Principles and Applications of Recombinant DNA* has introduced students to the fast-changing world of molecular biotechnology. With each revision, the authors have extensively updated the book to keep pace with the many new techniques in gene isolation and amplification, nucleic acid synthesis and sequencing, gene editing, and their applications to biotechnology. In this edition, authors Bernard R. Glick and Cheryl L. Patten have continued that tradition, but have also overhauled the

book's organization to Detail fundamental molecular biology methods and recombinant protein engineering techniques, which provides students with a solid scientific basis for the rest of the book. Present the processes of molecular biotechnology and its successes in medicine, bioremediation, raw material production, biofuels, and agriculture. Examine the intersection of molecular biotechnology and society, including regulation, patents, and controversies around genetically modified products. Filled with engaging figures that strongly support the explanations in the text, *Molecular Biotechnology: Principles and Applications of Recombinant DNA* presents difficult scientific concepts and technically challenging methods in clear, crisp prose. This excellent textbook is ideal for undergraduate and graduate courses in introductory biotechnology, as well as, courses dedicated to medical, agricultural, environmental, and industrial biotechnology applications.

With the advent of recombinant DNA technology, expressing heterologous proteins in microorganisms rapidly became the

method of choice for their production at laboratory and industrial scale. Bacteria, yeasts and other hosts can be grown to high biomass levels efficiently and inexpensively. Obtaining high yields of recombinant proteins from this material was only feasible thanks to constant research on microbial genetics and physiology that led to novel strains, plasmids and cultivation strategies. Despite the spectacular expansion of the field, there is still much room for progress. Improving the levels of expression and the solubility of a recombinant protein can be quite challenging. Accumulation of the product in the cell can lead to stress responses which affect cell growth. Buildup of insoluble and biologically inactive aggregates (inclusion bodies) lowers the yield of production. This is particularly true for obtaining membrane proteins or high-molecular weight and multi-domain proteins. Also, obtaining eukaryotic proteins in a prokaryotic background (for example, plant or animal proteins in bacteria) results in a product that lack post-translational modifications, often required for

functionality. Changing to a eukaryotic host (yeasts or filamentous fungi) may not be a proper solution since the pattern of sugar modifications is different than in higher eukaryotes. Still, many advances in the last couple of decades have provided to researchers a wide variety of strategies to maximize the production of their recombinant protein of choice. Everything starts with the careful selection of the host. Be it bacteria or yeast, a broad list of strains is available for overcoming codon use bias, incorrect disulfide bond formation, protein toxicity and lack of post-translational modifications. Also, a huge catalog of plasmids allows choosing for different fusion partners for improving solubility, protein secretion, chaperone co-expression, antibiotic resistance and promoter strength. Next, controlling culture conditions like temperature, inducer and media composition can bolster recombinant protein production. With this Research Topic, we aim to provide an encyclopedic account of the existing approaches to the expression of recombinant proteins in

microorganisms, highlight recent discoveries and analyze the future prospects of this exciting and ever-growing field. This textbook teaches the principles and applications of fermentation technology, bioreactors, bioprocess variables and their measurement, key product separation and purification techniques as well as bioprocess economics in an easy to understand way. The multidisciplinary science of fermentation applies scientific and engineering principles to living organisms or their useful components to produce products and services beneficial for our society. Successful exploitation of fermentation technology involves knowledge of microbiology and engineering. Thus the book serves as a must-have guide for undergraduates and graduate students interested in Biochemical Engineering and Microbial Biotechnology

Hearings; Ninety-third Congress, First Session

Mainland China, Official Standard Names Approved by the United States Board on Geographic Names: A-L

Reference World Atlas

A.I.D. Research and Development Abstracts

Heuristic Analysis of Large Trees as Generated in the Game of Go

Practical Guide to LTE-A, VoLTE and IoT

This book provides readers with a single-source guide to fabricate, characterize and model memristor devices for sensing applications. The authors describe a correlated, physics-based model to simulate and predict the behavior of devices fabricated with different oxide materials, active layer thickness, and operating temperature. They discuss memristors from various perspectives, including working mechanisms, different synthesis methods, characterization procedures, and device employment in radiation sensing and security applications.

A definitive A to Z source for spelling and hyphenation of the medical words, phrases, and eponyms in current use. Includes all the terminology transcriptionists need to know but often cannot find in standard references. What's more, words are spelled and hyphenated specifically for medical writing - - with approved syllable breaks for medical reports. Subentries and cross references speed access to specific terms.

Kinanthropometrics is the study of the human body size and somatotypes and their quantitative relationships with exercise and nutrition. This is the second edition of a successful text on the subject.

Military Construction Appropriations for 1974

Soil Survey

Dorland's Medical Speller

Extremophiles in Deep-Sea Environments

Journal of the National Cancer Institute

Mosby's Medical Speller

Many organisms in deep-sea environments are extremophiles thriving in extreme conditions: high pressure, high or low temperature, or high concentrations of inorganic compounds. This book presents the microbiology of extremophiles living in the deep sea and describes the isolation, cultivation, and taxonomic identification of microorganisms retrieved from the Mariana Trench, the world's deepest point. Also explained are techniques for recovering pressure-loving bacteria, the barophiles (piezophiles), and for whole genome analysis of *Bacillus halodurans* C-125. Physiological analysis of the pressure effect in *Saccharomyces cerevisiae* and *Escherichia coli* is used to answer the question of how deep-sea organisms survive under high hydrostatic pressure. These research results are useful in both basic science and industrial applications. Readers discover a new microbial world in the ocean depths, with state-of-the-science information on extremophiles.

The design and production of novel peptides and proteins occupy pivotal positions in science and technology and will continue to do so in the 21st century. Protein Engineering and Design outlines the rapid advances in computer-based modeling, protein engineering, and methods needed for protein and peptide preparation and characterization. This indispensable reference lays the groundwork for understanding this multidisciplinary activity while providing an introduction for researchers and students to the field of protein design. Introduces and defines the techniques involved in protein engineering and design Provides a concise overview of key technologies involved and demonstrates their contributions to the specialized design and production of novel proteins and peptides

Thoroughly updated, this user-friendly reference, trusted for more than a century by healthcare personnel at every professional level, allows you to grasp the meanings of all medical terms in current usage. Understand and correctly use all the latest terminology in today's ever-evolving medical field

with the 32nd Edition of the comprehensive, highly respected Dorlands Illustrated Medical Dictionary! Enhance your understanding of all the current medical terminology in your field by relying on the most comprehensive and highly respected medical dictionary, bringing you more than 120,000 well-defined entries and 1500 clear illustrations. Listen to 35,000 audio pronunciations. Search www.Dorlands.com on the Internet anytime, anywhere for all of the language integral to contemporary medicine. Make sure you're familiar with the very latest medical terms used today with more than 5,500 new entries drawn from current sources. Complement your understanding of new words and ideas in medicine with 500 new illustrations Get more information in a smaller amount of space as the revised entry format includes related parts of speech. Dorland's: The first and last word in medicine for over 110 years

Engineering Tables and Data

Mutants, Clones, and Killer Corn

Dorland's Illustrated Medical Dictionary

The Canadian Army and News Management During the Second World War

ScholarlyPaper

Essentials in Fermentation Technology

Describes the history of genetics and biotechnology, and discusses their uses in the future, including growing human organs for transplants and re-creating the dinosaurs.

In wartime, capturing the hearts and minds of the citizenry is arguably as important as victory on the battlefield. The Information Front explores the Canadian military's use of public relations units to manage news during the Second World War. These specialized units were responsible for providing sufficient and positive news coverage to Canadians at home. This fascinating study traces the transformation of an emergent PR organization into an efficient publicity machine. It also scrutinizes news coverage and PR activities during major Canadian operations at Dieppe, Sicily, and Normandy to reveal how the military used censorship and propaganda to rally support for the war effort. Thoroughly updated, this user-friendly reference, trusted for more than a century by healthcare personnel at every professional level, allows you to grasp the meanings of all medical terms in current usage. Understand and correctly use all the latest terminology in

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today's ever-evolving medical field with the 32nd Edition of the comprehensive, highly respected Dorlands Illustrated Medical Dictionary! Enhance your understanding of all the current medical terminology in your field by relying on the most comprehensive and highly respected medical dictionary, bringing you more than 120,000 well-defined entries and 1500 clear illustrations. Make sure you're familiar with the very latest medical terms used today with more than 5,500 new entries drawn from current sources. Complement your understanding of new words and ideas in medicine with 500 new illustrations Get more information in a smaller amount of space as the revised entry format includes related parts of speech.

How to Use and Upgrade to GM Gen III LS-Series Powertrain Control Systems

English and Tamil Dictionary

The Illustrated Dictionary of Gardening

Cupriavidus—Advances in Research and Application: 2012 Edition

Containing All the More Important Words in Dr. Webster's Dictionary of the English Language

Structure of Quantum Lévy Processes, Classical Probability, and Physics

The General Motors G-Body is one of the manufacturer's most popular

chassis, and includes cars such as Chevrolet Malibu, Monte Carlo, and El Camino; the Buick Regal, Grand National, and GNX; the Oldsmobile Cutlass Supreme; the Pontiac Grand Prix, and more. This traditional and affordable front engine/rear-wheel-drive design lends itself to common upgrades and modifications for a wide range of high-performance applications, from drag racing to road racing. Many of the vehicles GM produced using this chassis were powered by V-8 engines, and others had popular turbocharged V-6 configurations. Some of the special-edition vehicles were outfitted with exclusive performance upgrades, which can be easily adapted to other G-Body vehicles. Knowing which vehicles were equipped with which options, and how to best incorporate all the best-possible equipment is thoroughly covered in this book. A solid collection of upgrades including brakes, suspension, and the installation of GMs most popular modern engine-the LS-Series V-8-are all covered in great detail. The aftermarket support for this chassis is huge, and the interchangeability and affordability are a big reason for its popularity. It's the last mass-produced V-8/rear-drive chassis that enthusiasts can afford and readily modify. There is also great information for use

when shopping for a G-Body, including what areas to be aware of or check for possible corrosion, what options to look for and what should be avoided. No other book on the performance aspects of a GM G-Body has been published until now, and this book will serve as the bible to G-Body enthusiasts for years to come.

A comprehensive resource containing the operating principles and key insights of LTE networks performance optimization LTE Optimization Engineering Handbook is a comprehensive reference that describes the most current technologies and optimization principles for LTE networks. The text offers an introduction to the basics of LTE architecture, services and technologies and includes details on the key principles and methods of LTE optimization and its parameters. In addition, the author clarifies different optimization aspects such as wireless channel optimization, data optimization, CSFB, VoLTE, and video optimization. With the ubiquitous usage and increased development of mobile networks and smart devices, LTE is the 4G network that will be the only mainstream technology in the current mobile communication system and in the near future. Designed for use by researchers, engineers and operators working in the field of

mobile communications and written by a noted engineer and experienced researcher, the LTE Optimization Engineering Handbook provides an essential guide that: Discusses the latest optimization engineering technologies of LTE networks and explores their implementation Features the latest and most industrially relevant applications, such as VoLTE and HetNets Includes a wealth of detailed scenarios and optimization real-world case studies Professionals in the field will find the LTE Optimization Engineering Handbook to be their go-to reference that includes a thorough and complete examination of LTE networks, their operating principles, and the most current information to performance optimization.

Now in a much-anticipated two-volume new edition, this gold-standard reference stands as the most comprehensive and authoritative text on equine reproduction. Serving theriogenologists, practitioners and breeders worldwide as a one-stop resource for the reproductive assessment and management of equine patients, Equine Reproduction, Second Edition provides detailed information on examination techniques, breeding procedures, pregnancy diagnosis and management, reproductive tract diseases and surgery, and

foaling. A companion CD offers hundreds of images from the book in color. For the Second Edition, the stallion, mare and foal sections have been thoroughly updated and revised to include the latest information on every subject. New topics include discussion of nutritional and behavioral factors in the broodmare and stallion, parentage testing, fetal sexing and the health and management of older foals, weanlings and yearlings. Additionally, this outstanding Second Edition features a new section on assisted reproductive techniques, including detailed information on artificial insemination, in-vitro fertilization, embryo transfer and technology.

Equine Reproduction

A DICTIONARY OF THE ENGLISH LANGUAGE, Answering at Once the Purposes of RHYMING, SPELLING AND PRONOUNCING. On a PLAN Not Hitherto Attempted

The Information Front

Soil Survey ... Montgomery County Tennessee

Poncelet's Theorem

Hearings Before the Subcommittee on Civil and Constitutional Rights of the Committee on the Judiciary, House of Representatives, One

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Hundredth Congress, Second Session, May 4 and 18, 1988