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VF5CRO - TRISTIN CHEN

This Book of Abstracts is the main publication of the 63rd Annual Meeting of the European Association for Animal Production (EAAP), held August 27 to August 31, 2012 in Bratislava, Slovakia. It contains abstracts of the invited papers and contributed presentations. The meeting addressed subjects relating to science and innovation. Important problems were also discussed during the sessions of EAAP's nine Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems.

"It is essential reading for students and practitioners in animal welfare and animal science, and will also be of interest to readers in meat, veterinary and food sciences, and applied ethology."--BOOK JACKET.

Arctic explorer and anthropologist Vilhjalmur Stefansson promotes the health benefits of a diet high in fat and low in carbohydrates. Inspired by his observations of Eskimos and other indigenous cultures, and supported by evidence from a year-long experiment in which he only ate meat, Stefansson makes a strong case for an all-meat diet.

Looking at the impact on political thinking caused by the idea that animals are morally important beings, this text suggests that liberalism, despite having weaknesses, is the most appropriate ideological position for the protection of animal interests.

The Director of Facilities Planning Passbook(R) prepares you for your test by allowing you to take practice exams in the subjects you need to study. It provides hundreds of questions and answers in the areas that will likely be covered on your upcoming exam, including but not limited to: principles and practices of building construction; building construction materials and standards, and their

application; coordination of multiple contract projects; mechanical and electrical systems in buildings; preparing written material; and more.

Foods are ingested and become part of our body. This book describes the science and procedure behind the materials in foods that impart their desirable properties. The book can serve as a text in a course in food materials science at the senior or graduate level or as a supplemental text in an advanced food technology course. It can also serve as a reference book for professionals in the food industry.

This exceptional volume analyzes the intricate roles interest plays in cognition, motivation and learning, and daily living, with a special focus on its development and maintenance across life domains. Leading experts discuss a spectrum of interest ranging from curiosity to obsession, and trace its functions in goal-setting, decision-making, self-regulation, and performance. New research refines the current knowledge on student interest in educational settings and the social contexts of interest, with insights into why interest levels change during engagement and in the long run. From these findings, contributors address ways to foster and nurture interest in the therapy room and the classroom, for optimum benefits throughout life. Among the topics covered: · Embedding interest within self-regulation. · Knowledge acquisition at the intersection of situational and individual interest. · The role of interest in motivation and engagement. · The two faces of passion. · Creative geniuses, polymaths, child prodigies, and autistic savants. · The promotion and development of interest. A robust guide to a fascinating area of study, *The Science of Interest* synthesizes the field's current knowledge of interest and indicates future directions. Its chapters contribute depth and rigor to this growing area of research, and will enhance the work of researchers in education, psychologists, social scientists, and public policymakers.

Assure your mastery of medical-surgical nursing knowledge while honing your critical thinking and test-taking skills. The 3rd Edition of this popular resource features over 2,300 questions (including 550 alternate-format questions) that reflect the latest advances in medical-surgical nursing and the latest NCLEX-RN® test plan. They organize the seemingly huge volume of information you must master into manageable sections divided by body systems and specific diseases

Master the nurse's role in therapeutic nutrition and in teaching dietary health! *Nutritional Foundations and Clinical Applications: A Nursing Approach*, 8th Edition describes nutritional healing and wellness from the nurse's perspective. It covers dietary guidelines with a humanistic, personal touch, using first-hand accounts to show how nutrition principles apply to patients in real-world practice. This edition is updated with the most current guidelines and the latest research on nutrition. Written by noted educators Michele Grodner, Sylvia Escott-Stump, and Suzie Dorner, this leading nutrition text promotes healthy diets and shows how nutrition may be used in treating and controlling diseases and disorders. *Applying Content Knowledge and Critical Thinking: Clinical Applications* case studies help you apply nutrition principles to real-world practice situations. *Personal Perspective* box in each chapter offers a firsthand account of the ways in which nutrition affects patients' lives, demonstrating the personal touch for which this book is known. *Teaching Tool* boxes include strategies for providing nutrition counseling to patients. The *Nursing Approach* boxes analyze a realistic nutritional case study according to the nursing process. *Social Issue* boxes show how ethical, social, and community concerns can influence health and wellness. *Health Debate* boxes address the nurse's response to differing opinions or controversies about food, nutrition, and health concerns. *Cultural Considerations* boxes show how to understand and respect the food and

health customs of specific ethnic groups. Key terms and a glossary make it easy to learn key vocabulary and concepts. NEW! Nursing Approach sections include Next Generation NCLEX® terminology as well as single-episode cases and questions, with answers on the Evolve website.

Introduce students to the keyboarding with COLLEGE KEYBOARDING 17E: KEYBOARDING COURSE, LESSONS 1-25. This brief text emphasizes new-key learning and skill building while teaching the alphabetic keys, numeric keys, symbols, as well as the numeric keypad. Combined with the fun and engaging Keyboarding Pro 5, this package builds a strong keyboarding foundation. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This Book of Abstracts is the main publication of the 62nd Annual Meeting of the European Association for Animal Production (EAAP) held in Stavanger, Norway from 29 August - 2 September 2011. It contains abstracts of the invited papers and contributed presentations. The meeting addressed subjects relating to science and innovation. Also, important problems were discussed during the sessions of EAAP's nine Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems. In addition joint sessions on topics interesting several disciplines and species were included in the programme.

Master the essential medical-surgical nursing content you'll need for success on the Next-Generation NCLEX® Exam (NGN) and safe clinical practice! Medical-Surgical Nursing: Concepts for Interprofessional Collaborative Care, 10th Edition uses a conceptual approach to provide adult health knowledge and help you develop the clinical nursing judgment skills that today's medical-surgical nurses need to deliver safe, effective care. "Iggy" emphasizes three emerging trends in nursing - interprofessional collaborative care, concept-based learning, and clinical judgment and systems thinking - trends that will ground you in how to think like a nurse and how to apply your knowledge in the classroom, simulation laboratory, and clinical settings. A perennial bestseller, "Iggy" also features NCLEX Exam-style Challenge and Mastery questions to prepare you for success on the NGN! UNIQUE! Interprofessional collaborative approach to care views medical and nursing management through the lens of the nursing process and the NCSBN Clinical

Judgment Model and aligns with the Interprofessional Education Collaborative (IPEC) Core Competencies for Interprofessional Collaborative Practice. Consistent use of interprofessional terminology promotes interprofessional collaboration through the use of a common healthcare language, instead of using isolated nursing-specific diagnostic language. UNIQUE! Enhanced conceptual approach to learning integrates nursing concepts and exemplars, providing a foundation in professional nursing concepts and health and illness concepts and showing their application in each chapter. Unparalleled emphasis on clinical reasoning and clinical judgment helps you develop these vital skills when applying concepts to clinical situations. UNIQUE! Emphasis on Next-Generation NCLEX® Exam (NGN) preparation includes chapter-opening Learning Outcomes and chapter-ending Get Ready for the NCLEX Examination! sections, plus NCLEX Examination Challenge questions and new Mastery Questions, with an answer key in the back of the book and on the companion Evolve website. Emphasis on QSEN and patient safety focuses on safety and evidence-based practice with Nursing Safety Priority boxes, including Drug Alert, Critical Rescue, and Action Alert boxes. Direct, easy-to-read writing style features concise sentences and straightforward vocabulary. Emphasis on health promotion and community-based care reflects the reality that most adult health care takes place in environments outside of high-acuity (hospital) settings. NEW! Strengthened conceptual approach with data-driven Concept and Exemplar selections adds the concepts of pain, inflammation, and infection, and presents Exemplar disorders with a nursing-process format and depth to help prepare you for the Next-Generation NCLEX® Exam (NGN). NEW and UNIQUE! Enhanced focus on clinical judgment and systems thinking ensures alignment with the NCSBN Clinical Judgment Model and emphasizes the six cognitive skills you'll need for effective clinical judgment, for the NGN, and for safe clinical practice. NEW! Emphasis on need-to-know content provides a solid foundation for beginning nurse generalists, including only the most important patient problems for each medical condition, with streamlined chapters and concise coverage of nursing skills for preoperative and postoperative care. NEW! Updated content throughout reflects the latest national and international evidence-based guidelines and protocols. NEW! Improved learning resources on the companion Evolve website are thoroughly updated and closely integrated with the textbook. NEW! Interprofession-

al Collaboration boxes highlight how the nurse collaborates with other members of the healthcare team. NEW! Ethical/Legal Considerations boxes address dilemmas that medical-surgical nurses face related to technological changes and socioeconomic disparities. NEW! Increased emphasis on home care, health promotion, and community-based care reflects the ongoing shift of care from hospitals to the home environment. NEW! Updated illustrations include new anatomy and physiology images, procedure images, and disorder photos. NEW! Updated drug tables are designed for quick reference and the use of drug trade names is eliminated for better alignment with the NGN. NEW! Coverage of opioid misuse is updated to reflect the opioid crisis in the U.S. NEW! Content on personal safety and preparedness for mass casualty events has been expanded to equip you for the realities of healthcare today. NEW! Key terms and definitions at the beginning of each chapter give you advance familiarity with essential terminology. NEW! Revised Key Points align closely with Learning Outcomes and each includes a QSEN or Clinical Nursing Concept "tag" to maximize your study efficiency. NEW! Simplified and streamlined chapters make the book easier to use and information easier to find.

This book has been considered by academicians and scholars of great significance and value to literature. This forms a part of the knowledge base for future generations. We have represented this book in the same form as it was first published. Hence any marks seen are left intentionally to preserve its true nature.

Landscape Architecture Regenerative Design for Sustainable Development Winner, 1994 MeritAward for Communications, American Society of LandscapeArchitects "Regenerative Design for Sustainable Development is nothing less than a user's manual for planet Earth that integrates the principles of ecological design with practical realities better than anything I've read. John Lyle has written the best book now available on the theory and practice of sustainability . . . essential reading for natural resource professionals, architects, planners, educators, environmentalists, and the general public."--David W. Orr, Professor and Chair Environmental Studies Program, Oberlin College. "John Lyle has written a splendid book, Regenerative Design for Sustainable Development. It is perfectly topical; it is committed to the unity of art and science, design and planning, man and nature. It is itself exemplary, and it is a repository of exemplary adaptations. It has carried the environmental movement to a new threshold of ecological planning and

design. It should be widely read and employed." --Ian L. McHarg, FASLA. "In these times of widespread urban stress and regional disruption, the cogent thoughts of John Tillman Lyle on sustainable cities are on target and highly constructive. They are must reading for planning professionals and all concerned citizens." --John Ormsbee Simonds, FASLA. "More designers need to broaden their horizons in the way John Lyle has put forth in this book. In general, there are far too few landplanners, landscape architects, or architects who have any working procedure that approximates what sustainable design entails. This book provides important historical background and contemporary experience to help guide the way." --Pliny Fisk III, Center for Maximum Potential Building Systems. From the despoliation of our rivers and lakes by industrial runoff to the destruction of our atmosphere by sulphur emissions and CFCs, production cycles based on a one-way flow of materials and energy have pushed us to the brink of environmental collapse. It is time for a change, and in this groundbreaking book, John Tillman Lyle offers us a blueprint for implementing that change. This book provides civil engineers, architects, land development planners, and others with practical, realistic approaches to reversing this deadly course. Throughout, the emphasis is on proven regenerative practices for water use, land use, energy use, and building design. Most importantly, it provides ways to reestablish connections between people and nature, between art and science, and between technology and daily life.

Following its predecessor, the second edition of *Amino Acids: Biochemistry and Nutrition* presents exhaustive coverage of amino acids in the nutrition, metabolism and health of humans and other animals. Substantially revised, expanded and updated to reflect scientific advances, this book introduces the basic principles of amino acid biochemistry and nutrition, while highlighting the current knowledge of the field and its future possibilities. The book begins with the basic chemical concepts of amino acids, peptides and proteins, and their digestion and absorption. Subsequent chapters cover cell-, tissue-, and species-specific synthesis and catabolism of amino acids and related bioactive metabolites, and the use of isotopes to study amino acid metabolism in cells and the body. The book details protein turnover, physiological functions of amino acids, as well as both the regulation and inborn errors of amino acid metabolism. The book concludes with a presentation on human and animal dietary requirements of amino acids

and evaluates dietary protein quality. Features: Encompasses a comprehensive coverage of basic to applied concepts in amino acid metabolism in humans and other animals. Highlights important roles of dietary amino acids and protein intake in growth, physical performance and health, including sarcopenia mitigation and immunity. Discusses concerns over the excess intakes of amino acids or protein in the development of diseases, including cardiovascular disorders, diabetes and cancers, as well as bone integrity. Each chapter contains select references to provide comprehensive reviews and original experimental data on the topics discussed. Each chapter is backed by original experimental data on various topics discussed and contains select references to aid the reader further in research. Written by Distinguished Professor of Animal Nutrition, Guoyao Wu, Ph.D., this book is an authoritative reference for students and researchers in both biomedicine and agriculture.

This book closes the gap for beginners who want to study the Amharic language and had difficulties in finding the right grammar for this purpose: The first grammar of Amharic, the national language of Ethiopia, was published by Hiob Ludolf in 1698. The Amharic grammar published by Praetorius in 1879 is based on Amharic religious texts and on scattered material, usually composed by missionaries. A milestone in the study of Amharic is Marcel Cohen's *Traite de langue amharique* (1936), but this grammar, too is not completely suited for beginners since the author's generalizations are at times aimed at linguists. The grammar that comes closest to the concept of a beginner's grammar is that of C.H. Dawkin (1960), yet this grammar is extremely short, does not give examples and does not introduce the student to the intricacies of the language. The new book gives all the grammatical forms and the sentences of the present grammar in Amharic script and in phonetic transcription. The illustrative examples have a free and a literal translation. This procedure should likewise prove to be useful for the Semitist as well as for the general linguist.

Written specifically for dental hygiene and dental assisting students and practitioners, this text provides a solid foundation in basic nutrition and diet information, emphasizes the relationship of nutrition and diet to oral health, and provides information on nutrition and dietary patient counseling. This Second Edition includes new Food for Thought boxes that facilitate application of chapter

topics to the real-life setting. The Nutritional Counseling for Special Patient Groups chapter has been expanded to include new material on patients with cancer, patients with HIV, homeless patients, and substance abusers.

Animals are biological transformers of dietary matter and energy to produce high-quality foods and wools for human consumption and use. Mammals, birds, fish, and shrimp require nutrients to survive, grow, develop, and reproduce. As an interesting, dynamic, and challenging discipline in biological sciences, animal nutrition spans an immense range from chemistry, biochemistry, anatomy and physiology to reproduction, immunology, pathology, and cell biology. Thus, nutrition is a foundational subject in livestock, poultry and fish production, as well as the rearing and health of companion animals. This book entitled *Principles of Animal Nutrition* consists of 13 chapters. Recent advances in biochemistry, physiology and anatomy provide the foundation to understand how nutrients are utilized by ruminants and non-ruminants. The text begins with an overview of the physiological and biochemical bases of animal nutrition, followed by a detailed description of chemical properties of carbohydrates, lipids, protein, and amino acids. It advances to the coverage of the digestion, absorption, transport, and metabolism of macronutrients, energy, vitamins, and minerals in animals. To integrate the basic knowledge of nutrition with practical animal feeding, the book continues with discussion on nutritional requirements of animals for maintenance and production, as well as the regulation of food intake by animals. Finally, the book closes with feed additives, including those used to enhance animal growth and survival, improve feed efficiency for protein production, and replace feed antibiotics. While the classical and modern concepts of animal nutrition are emphasized throughout the book, every effort has been made to include the most recent progress in this ever-expanding field, so that readers in various biological disciplines can integrate biochemistry and physiology with nutrition, health, and disease in mammals, birds, and other animal species (e.g., fish and shrimp). All chapters clearly provide the essential literature related to the principles of animal nutrition, which should be useful for academic researchers, practitioners, beginners, and government policy makers. This book is an excellent reference for professionals and a comprehensive textbook for senior undergraduate and graduate students in animal science, biochemistry, biomedicine, biology, food science, nutrition,

veterinary medicine, and related fields.

In the current era where lifelong learning is brought to the fore, higher education can no longer be regarded as an isolated trajectory within one's educational career as many students face substantial challenges in crafting their professional future. More specifically, the transition from school to higher education and continuing to the labour market are often a difficult hurdles for many students. Almost half of students do not succeed in the first year and often withdraw from education, students are faced with a variety of contexts and may choose to study in a different (international) context, and they are then confronted with structural barriers in finding a (high-quality) job, as evidenced by increasing levels of youth unemployment and underemployment. Higher Education Transitions aims to deepen our understanding of the transitions taking place when students enter, progress and leave higher education to enter the labour market. Drawing on an international team of contributors, this guide includes three conceptual and fifteen empirical studies which include a range of quantitative, qualitative, cross-sectional and longitudinal studies. Divided into three sections to reflect each important transition phase, topics include: transitions from secondary to higher education; transitions within higher education; transitions from higher education to the labour market. By considering transitions across different phases as a broad and interrelated process, this guide will be essential reading for higher education researchers, policy stakeholders and all those interested in the transitions into higher education and the labour market.

Aquaculture is one of the fastest way to produce animal protein for growing population in the World. Aquaculture is the art, science, and business of producing aquatic plants and animals useful to humans. Fish farming is an ancient practice and date back as far as 2500 BC. In Europe, fish raised in ponds became a common source of food during the Middle Ages. Today, aquaculture plays a major role in global fish supply. Today, the global community faces financial and economic crisis, climatic changes and the pressing food and nutrition needs of a growing population with finite natural resources. As the world's population continues to increase over the coming decades, and global living standards rise, demand for fish is set to keep on growing. With most wild capture fisheries already fully exploited, much of that new demand will have to be met from aquaculture. According to FAO estimates,

more than 50 % of all fish for human consumption now comes from aquaculture. Aquaculture is one of the most resource-efficient ways to produce protein. Fish come out well because, in general, they convert more of the feed they eat into body mass than livestock animals. Salmon is the most feed-intensive farmed fish to convert feed to body weight gain and protein followed by chicken. Aquaculture is the controlled cultivation and harvest of aquatic organisms. Most commonly grown are finfish and shellfish, but other aquatic organisms are also cultivated such as seaweed, microalgae, frogs, turtles, alligators, and endangered species. There are many similarities between aquaculture and agriculture, but there are some important differences as well. Aquaculture, like agriculture, is necessary to meet the food demands of a growing global population with diminishing natural fisheries stocks. Aquaculture and agriculture are both farming. However, aquaculture is farming in the water and therefore requires a different set of knowledge, skill, and technology.

Principles of Food, Beverage, and Labor Cost Controls, Eighth Edition is the essential text for understanding the ins and outs of controlling food, labor, and beverage costs. It comes accompanied by ProMgmt Student Workbook, which allows students to obtain a certificate from the National Restaurant Association Educational Foundation. Includes a diskette which contains Excel spreadsheet applications. Special features include: Accompanied by a diskette which contains Excel spreadsheet applications 40% of chapters contain revised materials Full supplements package

Due to many challenges (i.e. climate change, energy, water and land shortage, high demands on food, land grabbing, etc.), agriculture production potential is expected to be seriously affected; thus, increasing food insecurity and hunger in many already affected regions (especially in Africa). In this context, sustainable agriculture is highly recommended as an eco-system approach where soil, water, plants, environment and living organisms live in harmony. Innovative technologies and research should be developed to ensure sustainable agriculture and productivity using modern irrigation systems, improved varieties, improved soil quality, etc. In the meantime, the preservation of natural environment should be based on resource conservation technologies and best management practices. Sustainable Agricultural Development, not only raises the serious ethical and social issues underlying these huge environmental problems, but also aims at presenting

successful experiences from all over the world in relation with sustainable farming, sustainable management of water and land resources, and innovative processes in livestock production. It also aims at providing inputs to decision making processes and encouraging the transfer of relevant know-how, technologies and expertise to different countries where similar agro-climatic conditions may exist; thus saving precious resources and promoting sustainable agricultural development as a relevant approach to tackle the food security challenge. Finally, this book focuses on the paradigmatic and policy dimensions and call for an innovative approach by analyzing the key themes in a complex and interrelated manner.

Chinese-English company name index -- Company-industry index -- Industry-company index -- Introduction -- A guide to the top 100 companies in China -- List of abbreviations -- List of contributors -- About the editors.

Artificial insemination is used instead of natural mating for reproduction purposes and its chief priority is that the desirable characteristics of a bull or other male livestock animal can be passed on more quickly and to more progeny than if that animal is mated with females in a natural fashion. This book contains under one cover 16 chapters of concise, up-to-date information on artificial insemination in buffalos, ewes, pigs, swine, sheep, goats, pigs and dogs. Cryopreservation effect on sperm quality and fertility, new method and diagnostic test in semen analysis, management factors affecting fertility after cervical insemination, factors of non-infectious nature affecting the fertility, fatty acids effects on reproductive performance of ruminants, particularities of bovine artificial insemination, sperm preparation techniques and reproductive endocrinology diseases are described. This book will explain the advantages and disadvantages of using AI, the various methodologies used in different species, and how AI can be used to improve reproductive efficiency in farm animals.

Feedstuffs for animals; Introduction to feedstuffs; Feed laws and labeling; Roughages; High-energy feedstuffs; Supplementary protein sources; Mineral and vitamin supplements; Feed preparation and processing; Ration formulation; Feeding livestock; Nutritional management of the beef cow herd; Growing and finishing beef cattle; Feeding dairy cows; Feeding young dairy calves; Ewe nutrition; The young lamb; Fattening lambs for market; Feeding goats; Feeding swine; Feeding poultry; Feeding horses; Feeding of dogs

and cats; Nutrition and feeding of rabbits.

The seventh edition of this popular book supports the authors' belief that guidance is more than getting children to do what you want them to do now; it is helping them to become everything they can become for all of their tomorrows. The book provides an overview, followed by discussion of core concepts, strategies for applying those concepts, and, finally, the broader perspective of professionalism and human resource development. Its approach focuses on the need to consider a child's developmental level as well as family and cultural context when planning environments and activities for young children. Unlike others in the field, it offers concrete suggestions on how to guide children while they are involved in specific activities such as playing, eating, napping, etc. For teachers and parents of young children.

This 5th edition offers concise information on general anatomic and physiologic principles applicable to all farm animals. All topics have been updated, supported by the latest research discoveries and factual information. Anglicized technical terms are used throughout the book, but most terms not found in an ordinary dictionary are defined within the text. Important differences from the gradually accepted view of controversial subjects are mentioned or discussed.

Achievements and progress in genome mapping and the genomics of microbes supersede by far those for higher plants and animals, in part due to their enormous economic implication but

also smaller genome size. In the post-genomic era, whole genome sequences of animal-associated microbes are providing clues to depicting the genetic basis of the complex host-pathogen relationships and the evolution of parasitism; and to improving methods of controlling pathogens. This volume focuses on a globally important group of intracellular prokaryotic pathogens which affect livestock animals. These include *Brucella*, *Mycobacterium*, *Anaplasma* and *Ehrlichia*, as well as the protozoan pathogens *Cryptosporidium* and *Theileria*, for which genome sequence data is available. Insights from comparative genomics of the microbes described provide clues to the adaptation involved in host-microbe interactions, as well as resources potentially useful for application in future research and product development.

Can we improve the health and welfare of livestock while increasing production? Can we maintain animal biodiversity in the face of increasing demands for resources and expanding agriculture? Can we use animal behaviour to reduce the carbon footprint of livestock production? Applied ethology is a young, multidisciplinary science that is relevant to these and other pressing issues. This book celebrates the history and science of applied ethology, and commemorates the 50th anniversary of the International Society for Applied Ethology. Through themes such as human-animal interaction, play behaviour, cognition, evolutionary theory and the relationship between applied ethology and animal welfare science, the book examines why ethologists are so passionate about their work, and why this field remains more exciting now than ever.

Chapter authors include world renowned ethologists such as Don Broom, Ian Duncan, Ruth Newberry, and many others. The history of the ISAE and development of the field is presented with engaging profiles of founding members and pioneers in the field. New methods and emerging issues in behaviour research are discussed, along with the development of ethology around the globe. The book concludes with thoughts on future directions for applied ethology in addressing global issues of animal production, welfare, biodiversity, and the role of the ISAE. The book provides an exciting overview of this emerging field of science, and is intended for academics, students and anyone who takes pleasure in observing animals.

A modern treatment of hypersonic aerothermodynamics for students, engineers, scientists, and program managers involved in the study and application of hypersonic flight. It assumes an understanding of the basic principles of fluid mechanics, thermodynamics, compressible flow, and heat transfer. Ten chapters address: general characterization of hypersonic flows; basic equations of motion; defining the aerothermodynamic environment; experimental measurements of hypersonic flows; stagnation-region flowfield; the pressure distribution; the boundary layer and convective heat transfer; aerodynamic forces and moments; viscous interactions; and aerothermodynamics and design considerations. Includes sample exercises and homework problems. Annotation copyright by Book News, Inc., Portland, OR