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Ring Current Investigations offers a comprehensive description of ring current dynamics in the Earth's magnetosphere as part of the coupled magnetosphere-ionosphere system. In order to help researchers develop a deeper understanding of the fundamental physics of geomagnetic storms, it includes a detailed description of energetic charged particles injection, trapping, and loss. It reviews historical and recent advances in observations, measurements, theory and simulations of the inner magnetosphere and its coupling to the ionosphere and other surrounding plasma populations. In addition, it compares the physics of ring currents at other strongly magnetized planets in the solar system, specifically Jupiter, Saturn, Uranus and Neptune, with the ring current system at Earth. Providing a description of the most important space weather effects driven by inner magnetospheric energetic particles during geomagnetic storms and present capabilities for their nowcast and forecast, Ring Current Investigations is an important reference for researchers in geophysics and space science, especially related to plasma physics, the ionosphere and magnetosphere, solar-terrestrial relations, and spacecraft anomalies. Includes an appendix with links to downloadable video clips, illustrating features of ring current and geomagnetic storm dynamics Provides overview of existing state-of-the-art numerical models and links for open-source code downloads Offers guidance on how to develop numerical models within the context of the present-day understanding This book is one of two volumes meant to capture, to the extent practical, the sci- ti? c legacy of the Cassini-Huygens prime mission, a landmark in the history of pl- etary exploration. As the most ambitious and interdisciplinary planetary exploration mission ? own to date, it has extended our knowledge of the Saturn system to levels of detail at least an order of magnitude beyond that gained from all previous missions to Saturn. Nestled in the brilliant light of the ne w and deep understanding of the Saturn pl- etary system is the shiny nugget that is the spectacularly successful collaboration of individuals, organizations and governments in the achievement of Cassini-Huygens. In some ways the partnerships formed and lessons learned may be the most enduring legacy of Cassini-Huygens. The broad, international coalition that is Cassini- Huygens is now conducting the Cassini Equinox Mission and planning the Cassini Solstice Mission, and in a major expansion of those fruitful efforts, has extended the collaboration to the study of new ? agship missions to both Jupiter and Saturn. Such ventures have and will continue to enrich us all, and evoke a very optimistic vision of the future of international collaboration in planetary exploration. All magnetized planets in our solar system (Mercury, Earth, Jupiter, Saturn, Uranus, and Neptune) interact strongly with the solar wind and possess well developed magnetotails. It is not only the strongly magnetized planets that have magnetotails. Mars and Venus have no global intrinsic magnetic field, yet they possess induced magnetotails. Comets have magnetotails that are formed by the draping of the interplanetary magnetic field. In the case of planetary satellites (moons), the magnetotail refers to the wake region behind the satellite in the flow of either the solar wind or the magnetosphere of its parent planet. The largest magnetotail of all in our solar system is the heliotail, the "magnetotail" of the heliosphere. The variety of solar wind conditions, planetary rotation rates, ionospheric conductivity, and physical dimensions provide an outstanding opportunity to extend our understanding of the influence of these factors on magnetotail processes and structures. Volume highlights include: Discussion on why a magnetotail is a fundamental problem of magnetospheric physics Unique collection of tutorials on a large range of magnetotails in our solar system In-depth reviews comparing magnetotail processes at Earth with other magnetotail structures found throughout the heliosphere Collectively, Magnetotails in the Solar System brings together for the first time in one book a collection of tutorials and current developments addressing different types of magnetotails. As a result, this book should appeal to a broad community of space scientists, and it should also be of interest to astronomers who are looking at tail-like structures beyond our solar system. Collision Reconstruction Methodologies - Volume 7B -The last ten years have seen explosive growth in the technology available to the collision analyst, changing the way reconstruction is practiced in fundamental ways. The greatest technological advances for the crash reconstruction community have come in the realms of photogrammetry and digital media analysis. The widespread use of scanning technology has facilitated the implementation of powerful new tools to digitize forensic data, create 3D models and visualize and analyze crash vehicles and environments. The introduction of unmanned aerial systems and standardization of crash data recorders to the crash reconstruction community have enhanced the ability of a crash analyst to visualize and model the components of a crash reconstruction. Because of the technological changes occurring in the industry, many SAE papers have been written to address the validation and use of new tools for collision reconstruction. Collision Reconstruction Methodologies Volumes 1-12 bring together seminal SAE technical papers surrounding advancements in the crash reconstruction field. Topics featured in the series include: • Night Vision Study and Photogrammetry • Vehicle Event Data Recorders • Motorcycle, Heavy Vehicle, Bicycle and Pedestrian Accident Reconstruction The goal is to provide the latest technologies and methodologies being introduced into collision reconstruction - appealing to crash analysts, consultants and safety engineers alike. Lemon-Aid Used Cars and Trucks 20102011 shows buyers how to pick the cheapest and most reliable vehicles from the past 30 years of production. This book offers an exposé gas consumption lies, a do-it-yourself service manual, an archive of service bulletins granting free repairs, and more. The future of the free market depends on fair, honest business practices. Business Ethics: Contemporary Issues and Cases aims to deepen students' knowledge of ethical principles, corporate social responsibility, and decision-making in all aspects of business. The text presents an innovative approach to ethical reasoning grounded in moral philosophy. Focusing on corporate purpose—creating economic value, complying with laws and regulations, and observing ethical standards—a decision-making framework is presented based upon Duties-Rights-Justice. Over 40 real-world case studies allow students to grapple with a wide range of moral issues related to personal integrity, corporate values, and global capitalism. Richard A. Spinello delves into the most pressing issues confronting businesses today including sexual harassment in the workplace, cybersecurity, privacy, and environmental justice. Electric currents are fundamental to the structure and dynamics of space plasmas, including our own near-Earth space environment, or "geospace." This volume takes an integrated approach to the subject of electric currents by incorporating their phenomenology and physics for many regions in one volume. It covers a broad range of topics from the pioneers of electric currents in outer space, to measurement and analysis techniques, and the many types of electric currents. First volume on electric currents in space in over a decade that provides authoritative up-to-date insight on the current status of research Reviews recent advances in observations, simulation, and theory of electric currents Provides comparative overviews of electric currents in the space environments of different astronomical bodies Electric Currents in Geospace and Beyond serves as an excellent reference volume for a broad community of space scientists, astronomers, and astrophysicists who are studying space plasmas in the solar system. Read an interview with the editors to find out more: <https://eos.org/editors-vox/electric-currents-in-outer-space-run-the-show> The essential introduction to the principles and applications of feedback systems—now fully revised and expanded This textbook covers the mathematics needed to model, analyze, and design feedback systems. Now more user-friendly than ever, this revised and expanded edition of Feedback Systems is a one-volume resource for students and researchers in mathematics and engineering. It has applications across a range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from physics, computer science, and operations research to introduce control-oriented modeling. They begin with state space tools for analysis and design, including stability of solutions, Lyapunov functions, reachability, state feedback observability, and estimators. The matrix exponential plays a central role in the analysis of linear control systems, allowing a concise development of many of the key concepts for this class of models. Åström and Murray then develop and explain tools in the frequency domain, including transfer functions, Nyquist analysis, PID control, frequency domain design, and robustness. Features a new chapter on design principles and tools, illustrating the types of problems that can be solved using feedback Includes a new chapter on fundamental limits and new material on the Routh-Hurwitz criterion and root locus plots Provides exercises at the end of every chapter Comes with an electronic solutions manual An ideal textbook for undergraduate and graduate students Indispensable for researchers seeking a self-contained resource on control theory Updated for 2005, this guide contains authoritative evaluations of more than 150 new 2005-model of cars, minivans, and sport-utility vehicles. Includes shopping tips and the latest retail and dealer-invoice prices to guide readers to the best new-car deals. Original. Überblick über den aktuellen Wissensstand und künftige Forschungsrichtungen in der Magnetosphärenphysik In den sechs Jahrzehnten seit der Einführung des Begriffs "Magnetosphäre" sind über den magnetisierten Raum, der jeden Körper in unserem Sonnensystem umgibt, viele Theorien entstanden und viele Erkenntnisse gewonnen worden. Jede Magnetosphäre ist einzigartig und verhält sich doch entsprechend den universellen physikalischen Vorgängen. Der Band "Magnetospheres in the Solar System" enthält Beiträge von Experten für Experimentalphysik, theoretische Physik und numerische Modellierung, die einen Überblick über verschiedene Magnetosphären vermitteln, von der winzigen Magnetosphäre des Merkur bis zu den gewaltigen planetarischen Magnetosphären von Jupiter und Saturn. Das Werk bietet insbesondere: * Einen kompakten Überblick über die Geschichte der Magnetosphäre, ihre Grundsätze und Gleichungen * Eine Zusammenfassung der grundlegenden Prozesse in der Magnetosphärenphysik * Instrumente und Techniken zur Untersuchung von Prozessen in der Magnetosphäre * Eine besondere Schwerpunktsetzung auf die Magnetosphäre der Erde und ihre Dynamik * Eine Darstellung der planetaren Magnetfelder und Magnetosphären im gesamten Sonnensystem * Eine Definition der künftigen Forschungsrichtungen in der Magnetosphärenphysik Die Amerikanische Geophysikalische Vereinigung fördert die wissenschaftliche Erforschung der Erde und des Weltraums zum Wohle der Menschheit. In ihren Publikationen werden wissenschaftliche Erkenntnisse veröffentlicht, die Forschern, Studenten und Fachkräften zur Verfügung stehen. Readers will find grouped together here the most recent observations, current theoretical models and present understanding of the coupled atmosphere, magnetosphere and solar wind system. The book begins with a general discussion of mass, energy and momentum transport in magnetodiscs. The physics of partially ionized plasmas of the giant planet magnetodiscs is of general interest throughout the field of space physics, heliophysics and astrophysical plasmas; therefore, understanding the basic physical processes associated with magnetodiscs has universal applications. The second chapter characterizes the solar wind interaction and auroral responses to solar wind driven dynamics. The third chapter describes the role of magnetic reconnection and the effects on plasma transport. Finally, the last chapter characterizes the spectral and spatial properties of auroral emissions, distinguishing between solar wind drivers and internal driving mechanisms. The in-depth reviews provide an excellent reference for future research in this discipline. Based on tests conducted by Consumers Union, this guide rates new cars based on performance, handling, comfort, convenience, reliability, and fuel economy, and includes advice on options and safety statistics. Haynes offers the best coverage for cars, trucks, vans, SUVs and motorcycles on the market today. Each manual contains easy to follow step-by-step instructions linked to hundreds of photographs and illustrations. Included in every manual: troubleshooting section to help identify specific problems; tips that give valuable short cuts to make the job easier and eliminate the need for special tools; notes, cautions and warnings for the home mechanic; color spark plug diagnosis; and an easy to use index. For the first time in one volume, Phil Edmonston, Canada's automotive "Dr. Phil," covers all used vehicles, packing this guide with insider tips to help the consumer make the safest and cheapest choice possible from cars and trucks of the past 25 years. Enterprise Risk Management: Advances on its Foundation and Practice relates the fundamental enterprise risk management (ERM) concepts and current generic risk assessment and management principles that have been influential in redefining the risk field over the last decade. It defines ERM with a particular focus on understanding the nexus between risk, uncertainty, knowledge and performance. The book argues that there is critical need for ERM concepts, principles and methods to adapt to the latest and most influential risk management developments, as there are several issues with outdated ERM theories and practices; problems include the inability to effectively and systematically balance both opportunity and downside performance, or relying too much on narrow probability-based perspectives for risk assessment and decision-making. It expands traditional loss-based risk principles into new and innovative performance-risk frameworks, and presents fundamental risk principles that have recently been developed by the Society for Risk Analysis (SRA). All relevant statistical and risk concepts are clearly explained and interpreted using minimal mathematical notation. The focus of the book is centered around ideas and principles, more than technicalities. The book is primarily intended for risk professionals, researchers and graduate students in the fields of engineering and business, and should also be of interest to executive managers and policy makers with some background in quantitative methods such as statistics. Andrew F. Nagy Originally published in the journal Space Science Reviews, Volume 139, Nos 1-4. DOI: 10. 1007/s11214-008-9353-0 © Springer Science+Business Media B. V. 2008 Keywords Aeronomy The term "aeronomy" has been used widely for many decades, but its origin has mostly been lost over the years. It was introduced by Sydney Chapman in a Letter to the Editor, entitled "Some Thoughts on Nomenclature", in Nature in 1946 (Chapman 1946). In that letter he suggested that aeronomy should replace meteorology, writing that the word "meteor is now irrelevant and misleading". This proposal was apparently not received with much support so in a short note in Weather in 1953 Chapman (1953) wrote: "If, despite its obvious convenience of brevity in itself and its derivatives, it does not commend itself to aeronomers, I think there is a case for modifying my proposal so that instead of the word being used to signify the study of the atmosphere in general, it should be adopted with the restricted sense of the science of the upper atmosphere, for which there is no convenient short word." In a chapter, he wrote in a 1960 book (Chapman 1960), he gave his nal and de nitive de nition, by stating that "Aeronomy is the science of the upper region of the atmosphere, where dissociation and ionization are important". The Workshop on "Comparative Aeronomy" was held at ISSI during the week of June 25-29, 2007. *Brings the story of the Cassini-Huygens mission and their joint exploration of the Saturnian system right up to date. *Combines a review of previous knowledge of Saturn, its rings and moons, including Titan, with new spacecraft results in one handy volume. *Provides the latest and most spectacular images, which will never have appeared before in book form. *Gives a context to enable the reader to more easily appreciate the stream of discoveries that will be made by the Cassini-Huygens mission. *Tells the exciting story of the Huygens spacecraft's journey to the surface of Titan. Car values fluctuate wildly, never more so than in our current economic environment. Pricing information is a must for collectors, restorers, buyers, sellers, insurance agents and a myriad of others who rely on reliable authoritative data. With well over 300,000 listings for domestic cars and light trucks, and various import vehicles manufactured between 1901 and 2012, this is the most thorough price guide on the market. This invaluable reference is for the serious car collector as well as anyone who wants to know the value of a collector car they are looking to buy or sell. Prices in this must-have reference reflect the latest values, in up to six grades of condition, from the esteemed Old Cars Price Guide database. New information for the most recent model year will also be added to our new Old Car Report database. Over a half century of exploration of the Earth's space environment, it has become evident that the interaction between the ionosphere and the magnetosphere plays a dominant role in the evolution and dynamics of magnetospheric plasmas and fields. Interestingly, it was recently discovered that this same interaction is of fundamental importance at other planets and moons throughout the solar system. Based on papers presented at an interdisciplinary AGU Chapman Conference at Yosemite National Park in February 2014, this volume provides an intellectual and visual journey through our exploration and discovery of the paradigm-changing role that the ionosphere plays in determining the filling and dynamics of Earth and planetary environments. The 2014 Chapman conference marks the 40th anniversary of the initial magnetosphere-ionosphere coupling conference at Yosemite in 1974, and thus gives a four decade perspective of the progress of space science research in understanding these fundamental coupling processes. Digital video links to an online archive containing both the 1974 and 2014 meetings are presented throughout this volume for use as an historical resource by the international heliophysics and planetary science communities. Topics covered in this volume include: Ionosphere as a source of magnetospheric plasma Effects of the low energy ionospheric plasma on the stability and creation of the more energetic plasmas The unified global modeling of the ionosphere and magnetosphere at the Earth and other planets New knowledge of these coupled interactions for heliophysicists and planetary scientists, with a cross-disciplinary approach involving advanced measurement and modeling techniques Magnetosphere-Ionosphere Coupling in the Solar System is a valuable resource for researchers in the fields of space and planetary science, atmospheric science, space physics, astronomy, and geophysics. Read an interview with the editors to find out more: <https://eos.org/editors-vox/filling-earths-space-environment-from-the-sun-or-the-earth> Over a hundred recipes of the Sicilian cuisine which are elaborate or extremely simple, but always delectable. From antipastos to sauces, from pasta and rice dishes to soups, from recipes for fish or meat to vegetables, salads and ultimately the delicious pastries. Here you will find a complete panorama which collects together the best of the island's gastronomy. Each recipe is accompanied by step-by-step photographs, illustrating the more complex stages, with a magnificent final presentation. There is also information with regard to the difficulty in the preparation, to the intensity of flavour and to the nutritional composition. Book jacket. For more than 38 years, millions of consumers have turned to Edmunds' buyer's guides for their shopping needs. This format makes it easy for consumers to get the advice and information they need to purchase their next new vehicle. Readers benefit from features such as: - Comprehensive vehicle reviews - Easy-to-use charts that rate competitive vehicles in popular market segments - Expanded in-depth advice on buying and leasing - Editors' and consumers' ratings - High-quality photography - Editors' Most Wanted picks in 29 vehicle categories In addition to these features, vehicle shoppers can benefit from the best that they've come to expect from the Edmunds name: - In-depth articles on all-new vehicles - Crash test ratings from the National Highway Traffic Safety Administration and the Insurance Institute for Highway Safety - Warranty information - Previews of future vehicles not yet for sale Ereignisse wie die Nuklearkatastrophe in Fukushima (2011) oder der ungeklärte Flugzeugabsturz der Malaysia-Airlines MH 370 (2014) zeigen, dass noch so undenkbar Ereignisse getreu dem Motto: „Erwarte auch das Unerwartete“ schnell zur Realität werden können. Jedes Unternehmen und jede Organisation kann von jetzt auf gleich mit Unsicherheiten und Unwägbarkeiten konfrontiert werden, die ihre Geschäftstätigkeit negativ beeinflussen und bis zur Existenzbedrohung reichen. Das Konzept der High-Reliability-Organisationen (HRO) liefert einen innovativen und nachhaltigen Beitrag zur Resilienz, um tagtäglich unerwartete Situationen unter extremen Bedingungen zu bewältigen und gestärkt aus Krisen hervorzugehen. Dieses Buch legt den Hintergrund und die Ergebnisse einer wissenschaftlichen Studie zur Anwendbarkeit der High-Reliability-Theorie (HRT) auf das Krisenmanagement in renommierten Wirtschaftsunternehmen dar. Anhand durchgeführter Experteninterviews, u. a. mit Leitern und

Fachreferenten der Konzernsicherheit, werden verschiedene Umsetzungspraktiken vorgestellt, die Schlussfolgerungen auf eine Übertragbarkeit des Konzeptes zulassen. Basierend auf den empirischen Ergebnissen, werden lösungsorientierte Transferansätze für das Krisenmanagement aufgezeigt. Dieses Buch bietet einen Einblick in das Krisenmanagement renommierter Wirtschaftsunternehmen, einen hohen Praxisbezug durch anschauliche Fallbeispiele vergangener Krisenereignisse sowie wissenschaftlich belegte innovative Ansätze zur Steigerung der organisationalen Resilienz. Das Buch richtet sich an Notfall- und Krisenmanager sowie an Fach- und Führungskräfte aus Risikoorganisationen, Wirtschaftsunternehmen, öffentlichen Verwaltungen oder Institutionen und Wissenschaft.

With active geysers coating its surface with dazzlingly bright ice crystals, Saturn's large moon Enceladus is one of the most enigmatic worlds in our solar system. Underlying this activity are numerous further discoveries by the Cassini spacecraft, tantalizing us with evidence that Enceladus harbors a subsurface ocean of liquid water. Enceladus is thus newly realized as a forefront candidate among potentially habitable ocean worlds in our own solar system, although it is only one of a family of icy moons orbiting the giant ringed planet, each with its own story. As a new volume in the Space Science Series, Enceladus and the Icy Moons of Saturn brings together nearly eighty of the world's top experts writing more than twenty chapters to set the foundation for what we currently understand, while building the framework for the highest-priority questions to be addressed through ongoing spacecraft exploration. Topics include the physics and processes driving the geologic and geophysical phenomena of icy worlds, including, but not limited to, ring-moon interactions, interior melting due to tidal heating, ejection and reaccretion of vapor and particulates, ice tectonics, and cryovolcanism. By contextualizing each topic within the profusion of puzzles beckoning from among Saturn's many dozen moons, Enceladus and the Icy Moons of Saturn synthesizes planetary processes on a broad scale to inform and propel both seasoned researchers and students toward achieving new advances in the coming decade and beyond. A one-stop reference guide to design for safety principles and applications Design for Safety (DfSa) provides design engineers and engineering managers with a range of tools and techniques for incorporating safety into the design process for complex systems. It explains how to design for maximum safe conditions and minimum risk of accidents. The book covers safety design practices, which will result in improved safety, fewer accidents, and substantial savings in life cycle costs for producers and users. Readers who apply DfSa principles can expect to have a dramatic improvement in the ability to compete in global markets. They will also find a wealth of design practices not covered in typical engineering books—allowing them to think outside the box when developing safety requirements. Design Safety is already a high demand field due to its importance to system design and will be even more vital for engineers in multiple design disciplines as more systems become increasingly complex and liabilities increase. Therefore, risk mitigation methods to design systems with safety features are becoming more important. Designing systems for safety has been a high priority for many safety-critical systems—especially in the aerospace and military industries. However, with the expansion of technological innovations into other market places, industries that had not previously considered safety design requirements are now using the technology in applications. Design for Safety: Covers trending topics and the latest technologies Provides ten paradigms for managing and designing systems for safety and uses them as guiding themes throughout the book Logically defines the parameters and concepts, sets the safety program and requirements, covers basic methodologies, investigates lessons from history, and addresses specialty topics within the topic of Design for Safety (DfSa) Supplements other books in the series on Quality and Reliability Engineering Design for Safety is an ideal book for new and experienced engineers and managers who are involved with design, testing, and maintenance of safety critical applications. It is also helpful for advanced undergraduate and postgraduate students in engineering. Design for Safety is the second in a series of "Design for" books. Design for Reliability was the first in the series with more planned for the future. For more than 39 years, millions of consumers have turned to Edmunds' buyer's guides for their shopping needs. This format makes it easy for consumers to get the advice and information they need to make a wise purchase on their next used vehicle. Readers benefit from features such as: - Recommendations for the Best Bets in the used car market - Detailed histories on popular models - Certified Used Vehicle Information - Hundreds of photographs - Glossary of Used Car Buying Terms In addition to these features, vehicle shoppers can benefit from the best they've come to expect from the Edmunds name: - True Market Value pricing for trade-in, private party and dealer retail - Highlighted yearly model changes - In-depth advice on buying and selling a used car A detailed overview of Saturn's formation, evolution and structure written by eminent planetary scientists involved in the Cassini Orbiter mission. Presents the latest safety ratings, dealer prices, fuel economy, insurance premiums, maintenance costs, and tires of new model automobiles. BEFORE YOU EVEN THINK ABOUT HANDING YOUR TEENS THE CAR KEYS, DO EVERYONE A BIG FAVOR: CRASHPROOF THEM! Every year, six million sons and daughters will become first-time drivers. Fifty-eight percent of them will be involved in a car accident within a year of getting their license, and a significant portion of these crashes will be fatal. But here's the good news: research has shown that car crashes can be reduced by up to 30 percent when you, the parent, are actively involved in your teen's instruction and set certain limits. In Crashproof Your Kids, certified driving instructor and dad Timothy Smith has combined the collective wisdom of numerous experts to develop the Crashproof Plan: a series of behind-the-wheel exercises designed to improve your teen's driving awareness, behavior, and skill in a way that fits your schedule. Written in a highly accessible, informal, and often humorous style, this comprehensive plan begins where drivers' education programs end, and includes: • A step-by-step plan to develop your teen's braking, car control, and defensive driving skills • How to handle road emergencies and basic car maintenance • Tips on helping your teen deal with dangerous distractions, including peer pressure and the use of alcohol and drugs • The Crashproof Contract, which outlines the expectations, responsibilities, and rules of the road for both the teen and the parent You'll get plenty of help on how to communicate vital driving concepts to your teen, and you'll laugh, learn, and sympathize with stories from parents who have already been there. Crashproof Your Kids is an essential resource for any parents wanting to help their teenagers successfully navigate the single most dangerous activity they'll ever undertake. A guide to buying a used car or minivan features information on the strengths and weaknesses of each model, a safety summary, recalls, warranties, and service tips. This book is one of two volumes meant to capture, to the extent practical, the scientific legacy of the Cassini-Huygens prime mission, a landmark in the history of planetary exploration. As the most ambitious and interdisciplinary planetary exploration mission to date, it has extended our knowledge of the Saturn system to levels of detail at least an order of magnitude beyond that gained from all previous missions to Saturn. Nestled in the brilliant light of the new and deep understanding of the Saturn planetary system is the shiny nugget that is the spectacularly successful collaboration of individuals, organizations and governments in the achievement of Cassini-Huygens. In some ways the partnerships formed and lessons learned may be the most enduring legacy of Cassini-Huygens. The broad, international coalition that is Cassini-Huygens is now conducting the Cassini Equinox Mission and planning the Cassini Solstice Mission, and in a major expansion of those fruitful efforts, has extended the collaboration to the study of new flagship missions to both Jupiter and Saturn. Such ventures have and will continue to enrich us all, and evoke a very optimistic vision of the future of international collaboration in planetary exploration. The two volumes in the series Saturn from Cassini-Huygens and Titan from Cassini-Huygens are the direct products of the efforts of over 200 authors and co-authors. Though each book has a different set of three editors, the group of six editors for the two volumes has worked together through every step of the process to ensure that these two volumes are a set. Buzz, squeak, and rattle (BSR) is the automotive industry term for the audible engineering challenges faced by all vehicle and component engineers. Minimizing BSR is of paramount importance when designing vehicle components and whole vehicle assemblies. This is the only book dedicated to the subject. It provides a self-contained reference to the background theory, testing, analysis, and elimination of BSR. Written for practicing engineers and industry researchers, the book has a strong focus on real-world applications making it an ideal handbook for those working in this important area. Chapters from leading experts from across the motor industry—with input from the design and research labs of Ford, Toyota, Daimler-Chrysler and GM—review the techniques available and provide readers with the appropriate physics, structural dynamics and materials science to address their own BSR issues. The only book available on automotive BSR (buzz, squeak and rattle)—the number one cause of complaint on new cars Comprehensive and authoritative, with contributions from leading figures in the field and companies such as Ford, Toyota and Daimler-Chrysler Enables readers to understand and utilize the complex tools used to assess, identify and rectify BSR in vehicle design and testing San Diego Magazine gives readers the insider information they need to experience San Diego—from the best places to dine and travel to the politics and people that shape the region. This is the magazine for San Diegans with a need to know. "Although Titan is similar in terms of mass and size to Jupiter's moons, Ganymede and Callisto, it is the only one harboring a massive atmosphere. Moreover, unlike the Jovian system populated with four large moons, Titan is the only large moon around Saturn. The other Saturnian moons are much smaller and have an average density at least 25% less than Titan's uncompressed density and much below the density expected for a Solar composition (Johnson and Lunine, 2005), although with a large variation from satellite to satellite. Both Jupiter's and Saturn's moon systems are thought to have formed in a disk around the growing giant planet. However, the difference in architecture between the two systems probably reflects different disk characteristics and evolution (e.g. Sasaki et al., 2010), and in the case of Saturn, possibly the catastrophic loss of one or more Titan-sized moons (Canup, 2010). Moreover, the presence of a massive atmosphere on Titan as well as the emission of gases from Enceladus' active south polar region (Waite et al., 2009) suggest that the primordial building blocks that comprise the Saturnian system were probably more volatile-rich than Jupiter's"— Examining a shocking array of fraud, corruption, theft, and embezzlement cases, this vivid collection reveals the practice of detecting, investigating, prosecuting, defending, and resolving white-collar crimes. Each chapter is a case study of an illustrative criminal case and draws on extensive public records around both obscure and high-profile crimes of the powerful, such as money laundering, mortgage fraud, public corruption, securities fraud, environmental crimes, and Ponzi schemes. Organized around a consistent analytic framework, each case tells a unique story and provides an engaging introduction to these complex crimes, while also introducing students to the practical aspects of investigation and prosecution of white-collar offenses. Jennifer C. Noble's text takes students to the front lines of these vastly understudied crimes, preparing them for future practice and policy work.

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