



বিজ্ঞপ্তি নং- ৪৯৬/মাধ্য-পটী/১৯৮/ ৪৫১

উপর্যুক্ত বিষয়ের প্রেক্ষিতে জানাযায় যে, ২০১৯ সালের জুনিয়র স্কুল সার্টিফিকেট (জেএসসি) পরীক্ষা নিম্নোক্ত সময়সূচি অনুযায়ী অনুষ্ঠিত হবে। বিশেষ প্রয়োজনে বোর্ড কার্যালয় এ সময়সূচি পরিবর্তন করতে পারবেন।

তারিখ ও দিন	বিষয় ও পরীক্ষা করার সময় সকাল ১০টা	বিষয় কেজ	বিষয় ও পরীক্ষা করার সময় বিকাল ২ টা	বিষয় কেজ
০২/১১/২০১৯ রবিবার	১। বাংলা - ১ম পত্র	১০১	X	X
০৩/১১/২০১৯ সোমবার	১। বাংলা - ২য় পত্র	১০২	X	X
০৪/১১/২০১৯ মঙ্গলবার	১। ইংরেজি - ১ম পত্র	১০৭	X	X
০৫/১১/২০১৯ বুধবার	১। ইংরেজি - ২য় পত্র	১০৮	X	X
০৬/১১/২০১৯ বৃহস্পতিবার	১। গণিত/ সাধারণ গণিত	১০৬	X	X
১০/১১/২০১৯ সোমবার	১। ইসলাম ও ঐতিহাসিক শিক্ষা/ ইসলাম শিক্ষা ২। হিন্দুধর্ম ও ঐতিহাসিক শিক্ষা / হিন্দুধর্ম শিক্ষা ৩। বৌদ্ধধর্ম ও ঐতিহাসিক শিক্ষা /বৌদ্ধধর্ম শিক্ষা ৪। খ্রিস্টধর্ম ও ঐতিহাসিক শিক্ষা/ খ্রিস্টধর্ম শিক্ষা	১১১ ১১২ ১১৩ ১১৪	X	X
১১/১১/২০১৯ মঙ্গলবার	১। অধ্য ও যোগাযোগ প্রযুক্তি	১০৫	X	X
১২/১১/২০১৯ বুধবার	১। কৃষি শিক্ষা ২। পার্বত্য বিজ্ঞান ৩। পার্বত্য অর্থনীতি ৪। অরণি ৫। সংস্কৃত ৬। পানি	১০৪ ১০১ ১০২ ১০৩ ১০৩ ১০৩	X	X
১৩/১১/২০১৯ বৃহস্পতিবার	১। তাত্ত্ব ও কাল্পনিক	১৪৮	X	X
১৬/১১/২০১৯ রবিবার	১। বিজ্ঞান/ সাধারণ বিজ্ঞান	১২৭	X	X
১৭/১১/২০১৯ সোমবার	১। শারীরিক শিক্ষা ও স্বাস্থ্য	১৪৭	X	X
১৮/১১/২০১৯ মঙ্গলবার	১। বাংলাদেশ ও বিশ্বপরিচয়	১০০	X	X

বিঃ দ্রঃ উপর্যুক্ত সময়সূচি পূর্বের প্রজ্ঞাপত্রের সময়সূচির অনুরূপ।

বিশেষ নির্দেশাবলী :

- ১। প্রজ্ঞাপত্র উল্লিখিত সময় অনুযায়ী পরীক্ষা গ্রহণ করতে হবে।
- ২। সুদক্ষতা ও ক্ষমতিবিশিষ্ট পরীক্ষার্থী একই উত্তরণে ব্যবহার করতে হবে।
- ৩। পরীক্ষার্থীরা তাদের প্রবেশপত্র নিয়ে নিজ নিজ প্রতিষ্ঠান প্রবেশের নিকট থেকে পরীক্ষা আরম্ভের কমপক্ষে ১০ (দশ) মিনিট পূর্বে সংগ্রহ করতে।
- ৪। পরীক্ষার্থীরা তাদের নিজ নিজ উত্তরণের OMR ফর্মের তার পরীক্ষার রোল নম্বর, রেজিস্ট্রেশন নম্বর, বিষয় কোড ইত্যাদি যথাযথভাবে নিয়ে সূত্র ভরাট করতে। কোন অবস্থাতেই উত্তরণে ভীষ করা যাবে না।
- ৫। পরীক্ষার্থীকে প্রত্যেক বিষয়ে স্বাক্ষরবিশিষ্টে অবশ্যই স্বাক্ষর করতে হবে।
- ৬। প্রত্যেক পরীক্ষার্থী কোন বিষয়মূল্যে ভর্তি বিধি/বিবরণমূত্রের পরীক্ষায় অংশগ্রহণ করতে পারবে। কোন অবস্থাতেই দ্বি-বিষয়ে পরীক্ষায় অংশগ্রহণ করতে পারবে না।
- ৭। পরীক্ষার্থীরা পরীক্ষায় সংশ্লিষ্ট সাইমিটিক কার্যকলাপের ব্যবহার করতে পারবে।
- ৮। কেবল সঠিক ব্যক্তিগত অথবা কেবল পরীক্ষা কেন্দ্রে মোবাইল ফোন ব্যবহার করতে পারবেন না এবং কোন পরীক্ষার্থী পরীক্ষা কেন্দ্রে মোবাইল ফোন আনতে পারবে না।

স্বাক্ষরিত  
প্রফেসর ড. এস এম ওয়াজিহুল্লাহমান  
পরীক্ষা নিয়ন্ত্রক  
মাধ্যমিক ও উচ্চমাধ্যমিক শিক্ষা বোর্ড, ঢাকা  
ফোন : ৯৬৬৬৮১১৫  
তারিখ: ২৩/০৭/২০১৯

বিজ্ঞপ্তি নং- ৪৯৬/মাধ্য-পটী/১৯৮/ ৪৫১

জরুরি।

- ১। সচিব, শিক্ষা মন্ত্রণালয়, গণপ্রজাতন্ত্রী বাংলাদেশ সরকার, বাংলাদেশ সচিবালয়, ঢাকা।
- ২। মহাপরিচালক, মাধ্যমিক ও উচ্চ শিক্ষা অধিদপ্তর, ঢাকা।
- ৩। অতিরিক্ত শিক্ষা মন্ত্রী মহোদয়ের একান্ত সচিব, গণপ্রজাতন্ত্রী বাংলাদেশ সরকার, বাংলাদেশ সচিবালয়, ঢাকা।
- ৪। ঢাকা শিক্ষা বোর্ডের অধ্যক্ষ/সচিব সকল ঢাকা অঞ্চল/উপজেলা/বিদ্যালয়/অতিরিক্ত/ঢাকা শিক্ষা অধিদপ্তর/কেন্দ্র সচিব।
- ৫। ঢাকা শিক্ষা বোর্ডের অধ্যক্ষ/সচিব সকল জেএসসি পরীক্ষার সেন্ট্রে/বিভাগীয় প্রধান।
- ৬। ঢাকা শিক্ষা বোর্ডের সকল কর্মকর্তা।
- ৭। অফিস কপি।

স্বাক্ষরিত  
তপন কুমার সরকার  
উপ পরীক্ষা নিয়ন্ত্রক  
মাধ্যমিক ও উচ্চমাধ্যমিক শিক্ষা বোর্ড, ঢাকা  
ফোন : ৮৬২৫৭৩২

# Jsc Fainal Examination 2014

**Y Pai**



## **Jsc Fainal Examination 2014:**

*Text, Cases and Materials on Public Law and Human Rights* Helen Fenwick, Gavin Phillipson, Alexander Williams, 2020-12-14 This book interweaves an authoritative authorial commentary significantly expanded from the last edition with extracts from a diverse and contemporary collection of cases and materials from three leading academics in the field It provides an all encompassing student guide to constitutional administrative and UK human rights law This fourth edition provides comprehensive coverage of all recent developments including the Fixed Term Parliaments Act 2011 restrictions on judicial review Criminal Justice and Courts Act 2015 changes to judicial appointments Crime and Courts Act 2013 the 2014 Scottish Independence Referendum Scotland Act 2016 and draft Wales Bill 2016 Recent devolution cases in the Supreme Court including Imperial Tobacco 2012 and Asbestos Diseases 2015 are fully analysed as is the 2015 introduction of English Votes for English Laws The remarkable Evans 2015 Black Spider memos case is considered in a number of chapters The common law rights resurgence seen in Osborn 2013 BBC 2014 and Kennedy 2014 is analysed in several places along with other key developments in judicial review such as Keyu 2015 and Pham 2015 Ongoing parliamentary reform in both Lords and Commons including major advances in controlling prerogative powers are fully explained as is the adaptation of the core Executive to Coalition Government 2010 2015 There is comprehensive coverage of key Strasbourg and HRA cases Horncastle 2010 Nicklinson 2014 Moohan 2014 Carlile 2014 and those in core areas of freedom of expression police powers and public order Animal Defenders 2013 Beghal 2015 Roberts 2015 Miranda 2016 and the prisoners voting rights saga up to Chester 2015

*Return to Sport after ACL Reconstruction and Other Knee Operations* Frank R. Noyes, Sue Barber-Westin, 2019-11-05 The wealth of information provided in this unique text will enable orthopedic surgeons medical practitioners physical therapists and trainers to ensure that athletes who suffer anterior cruciate ligament ACL injuries or who require major knee operations for other reasons have the best possible chance of safely resuming sporting activity at their desired level without subsequent problems Divided into seven thematic sections the coverage is wide ranging and encompasses common barriers to return to sport return to sport decision based models and the complete spectrum of optimal treatment for ACL injuries including preoperative and postoperative rehabilitation Advanced training concepts are explained in detail with description of sports specific programs for soccer basketball and tennis Readers will find detailed guidance on objective testing for muscle strength neuromuscular function neurocognitive function and cardiovascular fitness as well as validated assessments to identify and manage psychological issues In addition return to sport considerations after meniscus surgery patellofemoral realignment articular cartilage procedures and knee arthroplasty are discussed Generously illustrated and heavily referenced Return to Sport after ACL Reconstruction and Other Knee Operations is a comprehensive resource for all medical professionals and support staff working with athletes and active patients looking to get back in the game with confidence

**Minerals Yearbook** Mines Bureau, Geological Survey, Interior

Department,2018-04-19 The region of Europe and Central Eurasia defined in this volume encompasses territory that extends from the Atlantic Coast of Europe to the Pacific Coast of the Russian Federation It includes the British Isles Iceland and Greenland a self governing part of the Kingdom of Denmark Included are mineral commodity outlook tables plus global overview research for particularly commodities within a specific regions countries are presented throughout the text Manufacturers of these metals and commodities along with trade brokers that may specialize in imports and exports political scientists and economists may also be interested in this volume Students pursuing research on specific metals and mineral commodities for world economy courses may be interested in this volume

**Principles of Clinical Medicine for Space Flight** Michael R. Barratt, Ellen S. Baker, Sam L. Pool, 2020-01-02 In its first edition Principles of Clinical Medicine for Space Flight established itself as the authoritative reference on the contemporary knowledge base of space medicine and standards of care for space flyers It received excellent notices and is used in the curricula of civilian and military training programs and used as a source of questions for the Aerospace Medicine Certifying Examination under the American Board of Preventive Medicine In the intervening few years the continuous manning of the International Space Station has both strengthened existing knowledge and uncovered new and significant phenomena related to the human in space The Second Edition incorporates this information Gaps in the first edition will be addressed with the addition new and revised chapters This edition is extensively peer reviewed and represents the most up to date knowledge

Progress in Materials Science and Engineering Carlos Brebbia, Jerome J. Connor, 2018-05-07 This book presents recent advances made in materials science and engineering within Russian academia particularly groups working in the Ural Federal University District Topics explored in this volume include structure formation analysis of complicated alloys non ferrous metals metallurgy composite composed materials science and high pressure treatment of metals and alloys The finding discussed in this volume are to critical to multiple industries including manufacturing structural materials oil and gas coatings and metal fabrication

*Rio, Tokyo Paralympic Games and beyond: How to Prepare Athletes with Motor Disabilities for Peaking* Pierre-Marie Leprêtre, Victoria L. Goosey-Tolfrey, Thomas W. J. Janssen, Claudio Perret, 2017-05-25 In 1960 the 9th Annual International Stoke Mandeville Games were supported for the first time by the Italian Olympic Committee Taking place six days after the Closing Ceremony of the XVII Olympic Games the paralympic games for disabled athletes were born From Roma in 1960 to London in 2012 the Paralympic Games grew in terms of athletes number from 400 to 4 237 and now brings together more than 164 nations Perret 2015 The word Paralympic derives from the Greek preposition para beside or alongside and the word Olympic Paralympics want to be the parallel Games to the Olympics and illustrate how the two movements exist side by side Paralympics History of the Movement 2016 Now taking place after the Olympics Games the Paralympic Games are the pinnacle of the career of athletes with physical impairments and have become the second largest sport event in the world Perret 2015 Paralympics History of the Movement 2016 Gold and Gold 2011 The first statement of the vision of the

International Paralympic Committee IPC i e to create the conditions for athlete empowerment through self determination Paralympics History of the Movement 2016 International Paralympic Committee 2016 shows the importance of the place of the athlete with an impairment at the heart of the Paralympic Movement The ultimate aim of the IPC is to enable Paralympic athletes to achieve sporting excellence and inspire and excite the world International Paralympic Committee 2016 The performance level of athletes with an impairment improved to a point that in the present days sport news and world sport movements focus on the potential advantage of artificial limbs among athletes with amputations and their integration in able bodied competitions Burkett 2010 However they do not represent the totality of athletes with an impairment at the Paralympic Games Athletes with other physical impairments visual deficit spinal cord injury cerebral palsy or else are eligible to compete These impairments induce typical functional and physiological e g cardiovascular thermoregulatory responses to exercise For example spinal cord injury athletes with tetraplegia or paraplegia causes thermoregulatory impairment Goosey Tolfrey et al 2008 and individuals with cerebral palsy have also demonstrated higher thermal and metabolic strain than matched controls during treadmill walking in the heat Maltais et al 2004 Thus hyperthermia among these athletes with an impairment alters their performance compared to their Olympic counterparts Bhambhani 2002 Mechanical performance analysis the description of physiological responses according to the functional impairment or else the response to training and the relationship between laboratory and field testing responses are different parts of a package introduced here to address the aim of the IPC to enable Paralympic athletes to achieve sporting excellence Paralympics History of the Movement 2016 International Paralympic Committee 2016 Paralympic Games held almost immediately following the respective Olympics in the same site Gold and Gold 2011 also have exposed athletes to different environmental conditions In the present 20 odd years three of four Summer Paralympic Games have been or will be organized in the heat with or without significant humidity Beijing 2008 Average weather in September for Beijing China 2016 Rio de Janeiro 2016 Average weather in September for Rio de Janeiro Brazil 2016 and Tokyo 2020 Average weather in September for Ota Japan 2016 It has been established that the environmental conditions not only influences the level of cognitive and exercise performance capacity in trained able bodied individuals Veneroso et al 2015 but their health status may also be affected Due to the above mentioned impairment in thermoregulatory capacity athletes with spinal cord injury or cerebral palsy may be more susceptible to hyperthermia during exercise Goosey Tolfrey et al 2008 Maltais et al 2004 Bhambhani 2002 During the Paralympic tournament these athletes of the qualified nations were and will be exposed to heat and or humid conditions The hyperthermia induced by exercise among athletes with an impairment plus the effects of heat on core temperature will make their performance in the hot and warm conditions more challenging Some studies have addressed strategies to prevent the physiologic and psychological impairments in athletic performance induced by exercise performed in the heat Goosey Tolfrey et al 2008 Other proposed that wheelchair athletes should follow recommendations advocated for able bodied individuals to

minimize their risks of heat stress during competition Bhambhani 2002 In the present issue the authors provide a descriptive approach of performance and especially the preparation of athletes with a physical impairment to optimize their exercise performance We argue that the interactions between environmental conditions and typical responses to exercise of athletes with an impairment and the equipment interactions with athlete s body should be taken into account in the preparation of Paralympic athletes in order to witness the most magnificent sporting display the Paralympic Games Finally the motto of Paralympic movement Spirit in Motion is also the philosophy of the present compendium to present new advances and research findings in the field of applied physiology and biomechanics in exercise within the context of optimize Paralympic preparation and performance of athletes presented an impairment References Perret C 2015 Elite adapted wheelchair sports performance a systematic review Disabil Rehabil 27 1 9 Paralympics History of the Movement <https://www.paralympic.org/the-ipc-history-of-the-movement> Accessed July 8 2016 Gold J R Gold M M 2011 Olympic Cities City Agendas Planning and the World s Games 1896 2016 Planning History and Environment Series 2nd edition Routledge 2011 444 pages International Paralympic Committee IPC Vision Motto Symbol [https://www.paralympic.org/sites/default/files/document/120427151817794\\_Vision.pdf](https://www.paralympic.org/sites/default/files/document/120427151817794_Vision.pdf) Accessed July 8 2016 Burkett B 2010 Technology in Paralympic sport performance enhancement or essential for performance Br J Sports Med 44 215 220 doi 10 1136/bjsm.2009.067249 Goosey Tolfrey V Swainson M Boyd C Atkinson G Tolfrey K 2008 The effectiveness of hand cooling at reducing exercise induced hyperthermia and improving distance race performance in wheelchair and able bodied athletes J Appl Physiol 105 37 43 doi 10 1152/jappphysiol.01084.2007 Maltais D Wilk B Unnithan V Bar Or O 2004 Responses of children with cerebral palsy to treadmill walking exercise in the heat Med Sci Sports Exerc 36 1674 1681 Bhambhani Y 2002 Physiology of wheelchair racing in athletes with spinal cord injury Sports Med 32 23 51 Average weather in September for Beijing China <https://weatherspark.com/averages/34097/9/Beijing-China> Accessed July 8 2016 Average weather in September for Rio de Janeiro Brazil <https://weatherspark.com/averages/33421/9/Rio-de-Janeiro-Brazil> Accessed July 8 2016 Average weather in September for Ota Japan <https://weatherspark.com/averages/33260/9/Ota-Tokyo-Japan> Accessed July 8 2016 Veneroso C E Ramos G P Mendes T T Silami Garcia E 2015 Physical performance and environmental conditions 2014 World Soccer Cup and 2016 Summer Olympics in Brazil Temperature Austin 2 439 440 doi 10 1080/23328940.2015.1106637 *Minerals Yearbook* ,2010

**International Development and the Environment** Shiro Hori,Yukari Takamura,Toshiyuki Fujita,Norichika Kanie,2019-06-27 This book analyzes the interplay between development and the environment focusing on how to forge social consensus and practices in the international community Since the Rio Earth Summit in 1992 sustainable development has increasingly attracted the attention of the international community and several international agreements have been concluded to combat issues such as climate change The Sustainable Development Goals SDGs were introduced as common objectives and the Paris Agreement was adopted as a subsequent outcome In light of today s globalized world how to best

achieve sustainable development and prioritize climate change in particular is an issue involving various perspectives on the environment and economic development in the global community The book provides students businesspeople and government officials with a concept of sustainable development that is based on using social consensus social norms and practices cooperative global actions to achieve common goals It is divided into three parts the first of which focuses on the goals and development needed to achieve sustainable development The second part explores measures to promote sustainable development while the third highlights current climate change issues and aspects related to the effective implementation of international frameworks

James Webb Space Telescope (JWST): Final Report of the Independent Comprehensive Review Panel (ICRP) , **Turpin and Tomkins' British Government and the Constitution** Alison L. Young,2021-04-01 A lot has happened to the UK Constitution in the last seven years We ve witnessed the UK s exit from the EU further devolution to Scotland and Wales a number of prominent cases by the Supreme Court two early parliamentary general elections major governmental defeats and two Prime Ministerial resignations Alison Young has built on the text of Colin Turpin and Adam Tomkins earlier edition keeping their unique historical and contextual approach whilst bringing the material up to date with more contemporary examples including references to Brexit the recent prorogation and Brexit case law and the Covid 19 pandemic The book continues to include substantial extracts from parliamentary and other political sources as well as from legislation and case law It also provides a full yet accessible account of the British constitution at the culmination of a series of dramatic events on the threshold of possible further constitutional reform

*Factors Affecting Performance and Recovery in Team Sports: A Multidimensional Perspective* Athos Trecroci,Damiano Formenti,Jason Moran,Dino Pedreschi,Alessio Rossi,2022-04-20 *Through Astronaut Eyes* Jennifer K. Levasseur,2020-06-15 Featuring over seventy images from the heroic age of space exploration *Through Astronaut Eyes* presents the story of how human daring along with technological ingenuity allowed people to see the Earth and stars as they never had before Photographs from the Mercury Gemini and Apollo programs tell powerful and compelling stories that continue to have cultural resonance to this day not just for what they revealed about the spaceflight experience but also as products of a larger visual rhetoric of exploration The photographs tell us as much about space and the astronauts who took them as their reception within an American culture undergoing radical change throughout the turbulent 1960s This book explores the origins and impact of astronaut still photography from 1962 to 1972 the period when human spaceflight first captured the imagination of people around the world Photographs taken during those three historic programs are much admired and reprinted but rarely seriously studied This book suggests astronaut photography is particularly relevant to American culture based on how easily the images were shared through reproduction and circulation in a very visually oriented society Space photography s impact at the crossroads of cultural studies the history of exploration and technology and public memory illuminates its continuing importance to American identity

**Handbook on Railway Regulation** Matthias Finger,Juan Montero,2020-09-25 Taking a

global approach this insightful Handbook brings together leading researchers to provide a comprehensive overview of the state of the art in railway regulation with a particular focus on countries that rely heavily on railways for transportation links The Handbook also considers the most pressing issues for those working in and with railway systems and outlines future trends in the development of rail globally The youth elite football players Thomas Rostgaard Andersen,Morten B. Randers,James Malone,2024-04-01 **Training Methodology: A Multidimensional Approach For Team Sports** José Afonso,Ana Filipa Silva,Beat Knechtle,Luca Paolo Ardigò,Filipe Manuel Clemente,Rodrigo Ramirez-Campillo,Gibson Moreira Praça,Rodrigo Aquino,Daniel Castillo,Javier Raya-González,Hugo Borges Sarmento,2022-03-31 **Minerals Yearbook** Mines Bureau,Geological Survey,Interior Department,2018-04-19 The region of Europe and Central Eurasia defined in this volume encompasses territory that extends from the Atlantic Coast of Europe to the Pacific Coast of the Russian Federation It includes the British Isles Iceland and Greenland a self governing part of the Kingdom of Denmark Included are mineral commodity outlook tables plus global overview research for particularly commodities within a specific regions countries are presented throughout the text Manufacturers of these metals and commodities along with trade brokers that may specialize in imports and exports political scientists and economists may also be interested in this volume Students pursuing research on specific metals and mineral commodities for world economy courses may be interested in this volume **The Liability of Internet Intermediaries** Jaani Riordan,2016-07-14 Internet intermediaries play a central role in modern commerce and society Although their economic and social importance is well recognised their legal liability remains poorly understood and until now no work has specifically addressed their legal responsibility for wrongdoing carried out by third parties using their facilities or platforms This work fills that gap by providing comprehensive coverage of the legal duties owed by intermediaries and the increasingly complex schemes that regulate their activities The first part of the work introduces the concept of an internet intermediary general doctrines of primary and secondary liability and the European enforcement regime The second part examines the liability of intermediaries in specific areas of law with a detailed analysis of the applicable liability rules and the major English case law and decisions of the Court of Justice that interpret and apply them The final part of the work provides guidance on remedies and limitations Written by an expert author from the intellectual property chambers at 8 New Square Lincoln s Inn this is an essential guide for lawyers advising on liability privacy and online regulation Multidirectional Speed in Sport Paul Jones,Thomas Dos'Santos,2023-06-30 During field and court based sports players are continually required to perceive their environment within a match and select and perform the most appropriate action to achieve their immediate goal within that match instance This ability is commonly known as agility considered a vital quality in such sports and may incorporate a variety of locomotion and instantaneous actions Multidirectional speed is a global term to describe the competency and capacity to perform such actions accelerate decelerate change direction and ultimately maintain speed in multiple directions and movements within the context of sports



specific scenarios encompassing agility speed and many other related qualities Multidirectional speed in sport depends on a multitude of factors including perceptual cognitive abilities physical qualities and the technical ability to perform the previously mentioned actions Multidirectional Speed in Sport Research to Application reviews the science of multidirectional speed and translates this information into real world application in order to provide a resource for practitioners to develop multidirectional speed with athletes bringing together knowledge from a wealth of world leading researchers and applied practitioners in the area of speed and agility to provide a complete resource to assist practitioners in designing effective multidirectional speed development programmes This text is critical reading for undergraduate and graduate sports science students all individuals involved in training athletes e g coaches physiotherapists athletic trainers and researchers in the field of sports science and sports medicine

**Photosynthesis: Structures, Mechanisms, and Applications** Harvey J.M. Hou, Mohammad Mahdi Najafpour, Gary F. Moore, Suleyman I. Allakhverdiev, 2017-05-16 To address the environmental socioeconomic and geopolitical issues associated with increasing global human energy consumption technologies for utilizing renewable carbon free or carbon neutral energy sources must be identified and developed Among renewable sources solar energy is quite promising as it alone is sufficient to meet global human demands well into the foreseeable future However it is diffuse and diurnal Thus effective strategies must be developed for its capture conversion and storage In this context photosynthesis provides a paradigm for large scale deployment Photosynthesis occurs in plants algae and cyanobacteria and has evolved over 3 billion years The process of photosynthesis currently produces more than 100 billion tons of dry biomass annually which equates to a global energy storage rate of 100 TW Recently detailed structural information on the natural photosynthetic systems has been acquired at the molecular level providing a foundation for comprehensive functional studies of the photosynthetic process Likewise sophisticated spectroscopic techniques have revealed important mechanistic details Such accomplishments have made it possible for scientists and engineers to construct artificial systems for solar energy transduction that are inspired by their biological counterparts The book contains articles written by experts and world leaders in their respective fields and summarizes the exciting breakthroughs toward understanding the structures and mechanisms of the photosynthetic apparatus as well as efforts toward developing revolutionary new energy conversion technologies The topics chapters will be organized in terms of the natural sequence of events occurring in the process of photosynthesis while keeping a higher order organization of structure and mechanism as well as the notion that biology can inspire human technologies For example the topic of light harvesting will be followed by charge separation at reaction centers followed by charge stabilization followed by chemical reactions followed by protection mechanisms followed by other more specialized topics and finally ending with artificial systems and looking forward As shown in the table of contents TOC the book includes and integrates topics on the structures and mechanisms of photosynthesis and provides relevant information on applications to bioenergy and solar energy transduction

**Shareholders' Claims for Reflective Loss in**

**International Investment Law** Lukas Vanhonnaeker, 2020-07-16 In recent years investor state tribunals have often permitted shareholders claims for reflective loss despite the well established principle of no reflective loss applied consistently in domestic regimes and in other fields of international law Investment tribunals have justified their decisions by relying on definitions of investment in investment agreements that often include shares while the no reflective loss principle is generally justified on the basis of policy considerations pertaining to the preservation of the efficiency of the adjudicatory process and to the protection of other stakeholders such as creditors Although these policy considerations militating for the prohibition of shareholders claims for reflective loss also apply in investor state arbitration they are curable in that context and must be balanced with policy considerations specific to the field of international investment law that weigh in favor of such claims the protection of foreign investors in order to promote trade and investment liberalization

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