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All the cases you need, together with the tools to understand them. Poole's Casebook on contract law takes a uniquely

supportive approach, to give students the confidence to engage with and analyse judgments. The book is simple to navigate, pulling all key case law together into one easy-to-use volume which students can work through systematically or use to reference specific cases. Cases are accompanied by succinct author commentary highlighting the key elements of each case. An introductory chapter provides valuable guidance on how to read and understand case law, developing essential academic and practical skills. *Compulsory Purchase and Compensation* is the essential guide to this complex and increasingly relevant area of the law. Now in its eleventh edition, no other book presents the same level of information on the law relating to compulsory purchase and compensation in England and Wales in such an accessible way. The best-selling book on the subject, previous editions have been used by professionals and students alike in order to gain a full understanding of a key subject for any surveyor or lawyer. The book is also especially suited to those coming to this complex subject without a

specific background in the law and ideal reading for those students taking planning and built environment law modules. Surveyors in particular will find this book invaluable. This new edition has been extensively revised and reflects the changes to the law in the Housing and Planning Act 2016 and the Neighbourhood Planning Act 2017, and also recent decisions of the courts and the Upper Tribunal, all of which will be of particular interest to those working on cases related to HS2, the proposed high-speed railway line from London to Birmingham, Leeds and Manchester. Why are some countries rich and others poor? David N. Weil, one of the top researchers in economic growth, introduces students to the latest theoretical tools, data, and insights underlying this pivotal question. By showing how empirical data relate to new and old theoretical ideas, *Economic Growth* provides students with a complete introduction to the discipline and the latest research. With its comprehensive and flexible organization, *Economic Growth* is ideal for a wide array of courses,

including undergraduate and graduate courses in economic growth, economic development, macro theory, applied econometrics, and development studies. Electricity transmission and distribution (T&D) networks carry electricity from generation sites to demand sites. With the increasing penetration of decentralised and renewable energy systems, in particular variable power sources such as wind turbines, and the rise in demand-side technologies, the importance of innovative products has never been greater. Eco-design approaches and standards in this field are aimed at improving the performance as well as the overall sustainability of T&D network equipment. This multidisciplinary reference provides coverage of developments and lessons-learned in the fields of eco-design of innovation from product-specific issues to system approaches, including case studies featuring problem-solving methodologies applicable to electricity transmission and distribution networks. Discusses key environmental issues and methodologies for eco-design, and applies this to

development of equipment for electricity transmission and distribution. Provides analysis of using and assessing advanced equipment for wind energy systems. Includes reviews of the energy infrastructure for demand-side management in the US and Scandinavia. *Pathogens for War* explores how Canada and its allies have attempted to deal with the threat of germ warfare, one of the most fearful weapons of mass destruction, since the Second World War. In addressing this subject, distinguished historian Donald Avery investigates the relationship between bioweapons, poison gas, and nuclear devices, as well as the connection between bioattacks and natural disease pandemics. Avery emphasizes the crucially important activities of Canadian biodefence scientists - beginning with Nobel Laureate Frederick Banting - at both the national level and through cooperative projects within the framework of an elaborate alliance system. Delving into history through a rich collection of declassified documents, *Pathogens for War* also devotes several chapters to the

contemporary challenges of bioterrorism and disease pandemics from both national and international perspectives. As such, readers will not only learn about Canada's secret involvement with biological warfare, but will also gain new insights into current debates about the peril of bioweapons - one of today's greatest threats to world peace. This book is a single-source reference to the issues involved in the Landauer principle, which has gained new prominence recently, due to the large amount of heat generated by today's computers. If Landauer's principle is correct, there may be ways to build computers that dissipate far less power (corresponding to heat generated) than today's computers. This book brings together all sides of the discussions regarding Landauer's principle, both theoretical and experimental, empowering readers to gain better understanding of dissipation in computation, and the limits if any to progress in computation related to energy dissipation. It represents the best and most thorough examination of the important issue of Landauer's principle

that is available in one volume. Provides an in-depth investigation of the Landauer principle and how it relates to the possible existence of lower bounds on dissipation in computation; Gathers together both sides of the discussion: those who agree with Landauer and his conclusions, and those who think that Landauer was not correct, offering fresh perspective on the issues in the new light of experiments; Offers insight into the future of silicon CMOS and the limits if any to progress in computation related to energy dissipation. Now thoroughly up-to-date, *Clinical Gastrointestinal Endoscopy, 3rd Edition*, by Drs. Vinay Chandrasekhara, Mouen Khashab, B. Joseph Elmunzer, and V. Raman Muthusamy, ensures that you stay current with the latest technology and techniques in GI endoscopy. An all-new editorial team, newly updated images, and a reorganized format make this reference an easy-to-use source of reliable information on a full range of topics, including anatomy, pathophysiology, and therapeutic management options, in addition to the latest GI procedures and

technologies. Features 1,000 revised photographs, endoscopic images, and anatomical drawings. Provides a fresh perspective and expert guidance from an entirely new editorial team. Includes many more references per chapter. Presents material in a newly restructured, organ-based format for quick reference. The term 'work-life balance' refers to the relationship between paid work in all of its various forms and personal life, which includes family but is not limited to it. In addition, gender permeates every aspect of this relationship. This volume brings together a wide range of perspectives from a number of different disciplines, presenting research findings and their implications for policy at all levels (national, sectoral, enterprise, workplace). Collectively, the contributors seek to close the gap between research and policy with the intent of building a better work-life balance regime for workers across a variety of personal circumstances, needs, and preferences. Among the issues and topics covered are the following: - differences and

similarities between men and women and particularly between mothers and fathers in their work choices; - 'third shift' work (work at home at night or during weekends); - effect of the extent to which employers perceive management of this process to be a 'burden'; - employers' exploitation of the psychological interconnection between masculinity and breadwinning; - organisational culture that is more available for supervisors than for rank and file workers; - weak enforcement mechanisms and token penalties for non-compliance by employers; - trade unions as the best hope for precarious workers to improve work-life balance; - crowd-work (on-demand performance of tasks by persons selected remotely through online platforms from a large pool of potential and generic workers); - an example of how to use work-life balance insights to evaluate the law; - collective self-scheduling; - employers' duty to accommodate; and - financial hardship as a serious threat to work-life balance. As it has been shown clearly that work-life conflict is associated with negative health

outcomes, exacerbates gender inequalities, and many other concerns, this unusually rich collection of essays will resonate particularly with concerned lawyers and legal academics who ask what work-life balance literature has to offer and how law should respond. Heroism is a rich, elusive phenomenon. Any adequate understanding of heroic behavior requires a new type of scholarly imagination, one that taps into human artistic sensibilities as much as it does the rigors of scientific inquiry. In an important sense, we invoke a meta-version of the call to heroic imagination by Franco, Blau, and Zimbardo (2011), who describe such imagination "as a mind-set" and "a collection of attitudes" (p. 13) that can steer everyday people toward heroic achievement. This eBook also merges our understanding of heroism with heroic leadership, demonstrating that heroic leadership applies the principles of heroism in moving groups toward noble collective goals. This eBook represents an effort by a distinguished group of authors to unleash their own creative mindsets,

attitudes, and imaginations in their scholarship on heroism and heroic leadership. This volume is based on the fifth international conference of quantumbio-informatics held at the QBI Center of Tokyo University of Science. This volume provides a platform to connect mathematics, physics, information and life sciences, and in particular, research for new paradigm for information science and life science on the basis of quantum theory. The following topics are discussed: Cryptographic algorithms; Quantum algorithm and computation; Quantum entanglement; Quantum entropy and information dynamics; Quantum dynamics and time operator; Stochastic dynamics and white noise analysis; Brain activity; Quantum-like models and PD game; Quantum physics and superconductivity; Quantum tomography and sufficiency; Adaptation in Plants; Alignment of sequences

The Changing Face of Colonial Education in Africa offers a detailed and nuanced perspective of colonial history, based on 15 years of research that throws fresh light on the complexities of African

history and the colonial world of the first half of the twentieth century. It provides an analytical background to the history of education in the colonial context by balancing contributions by missionary agencies, colonial government, humanitarian agencies, scientific experts and African agents. It offers a foundation for the analysis of modern educational policy for the postcolonial state. It attempts to move beyond clichés about colonial education to an understanding of the complexities of how educational policy was developed in different places at different times while giving credence to arguments that see schooling as a form of social control in the colonial environment. It is essential reading for academics, researchers and policymakers looking to better understand colonial education and contextualize modern developments related to the decolonizing African education. It is intended to provide an essential background for policymakers by demonstrating the significance of a historical perspective for an understanding of contemporary educational

challenges in Africa and elsewhere. All the cases you need, together with the tools to understand them. Now updated by Professor Robert Merkin and Dr Séverine Saintier, 'Poole's Casebook on Contract Law' takes a uniquely supportive approach, to give you the confidence to engage with and analyse judgments. Sets forth the state of the science and technology in plasma protein production With contributions from an international team of eighty leading experts and pioneers in the field, *Production of Plasma Proteins for Therapeutic Use* presents a comprehensive overview of the current state of knowledge about the function, use, and production of blood plasma proteins. In addition to details of the operational requirements for the production of plasma derivatives, the book describes the biology, development, research, manufacture, and clinical indications of essentially all plasma proteins with established clinical use or therapeutic potential. *Production of Plasma Proteins for Therapeutic Use* covers the key aspects of the plasma

fractionation industry in five sections:

Section 1: Introduction to Plasma Fractionation initially describes the history of transfusion and then covers the emergence of plasma collection and fractionation from its earliest days to the present time, with the commercial and not-for-profit sectors developing into a multi-billion dollar industry.

Section 2: Plasma Proteins for Therapeutic Use contains 24 chapters dedicated to specific plasma proteins, including coagulation factors, albumin, immunoglobulin, and a comprehensive range of other plasma-derived proteins with therapeutic indications. Each chapter discusses the physiology, biochemistry, mechanism of action, and manufacture of each plasma protein including viral safety issues and clinical uses.

Section 3: Pathogen Safety of Plasma Products examines issues and procedures for enhancing viral safety and reducing the risk of transmissible spongiform encephalopathy transmission.

Section 4: The Pharmaceutical Environment Applied to Plasma Fractionation details the requirements and activities associated

with plasma collection, quality assurance, compliance with regulatory requirements, provision of medical affairs support, and the manufacture of plasma products.

Section 5: The Market for Plasma Products and the Economics of Fractionation reviews the commercial environment and economics of the plasma fractionation industry including future trends, highlighting regions such as Asia, which have the potential to exert a major influence on the plasma fractionation industry in the twenty-first century. This book is about the life of a physician, scientist, psychiatrist, and bioethicist that has been interwoven with the coexistence of the hepatitis C virus (HCV). It entails medical, ethical, spiritual, and historical reflections, as well as the objective and personal history and science of viral hepatitis as well. His life might also be seen as a story of multiple survival episodes—not all related to HCV—that suggests providential oversight. Special edition of the *Federal Register*, containing a codification of documents of general applicability and future effect

... with ancillaries. "Outstanding Academic Title for 2014" by CHOICE

Einstein Relatively Simple brings together for the first time an exceptionally clear explanation of both special and general relativity. It is for people who always wanted to understand Einstein's ideas but never thought they could. Told with humor, enthusiasm, and rare clarity, this entertaining book reveals how a former high school drop-out revolutionized our understanding of space and time. From $E=mc^2$ and everyday time travel to black holes and the big bang, *Einstein Relatively Simple* takes us all, regardless of our scientific backgrounds, on a mind-boggling journey through the depths of Einstein's universe. Along the way, we track Einstein through the perils and triumphs of his life – follow his thinking, his logic, and his insights – and chronicle the audacity, imagination, and sheer genius of the man recognized as the greatest scientist of the modern era. In Part I on special relativity we learn how time slows and space shrinks with motion, and how mass and energy are

equivalent. Part II on general relativity reveals a cosmos where black holes trap light and stop time, where wormholes form gravitational time machines, where space itself is continually expanding, and where some 13.7 billion years ago our universe was born in the ultimate cosmic event – the Big Bang. Contents: Einstein Discovered: Special Relativity, $E = mc^2$, and Spacetime: From Unknown to Revolutionary The Great Conflict The Two Postulates A New Reality The Shrinking of Time Simultaneity and the Squeezing of Space The World's Most Famous Equation Spacetime Einstein Revealed: General Relativity, Gravity, and the Cosmos: Einstein's Dream "The Happiest Thought of My Life" The Warping of Space and Time Stitching Spacetime What is Spacetime Curvature? Einstein's Masterpiece The Universe Revealed In the Beginning Readership: Adults and young people all over the world who are curious about Einstein and how the universe works. Keywords: Einstein; Relativity; Special Relativity; General Relativity; Spacetime; Big Bang; Black

Holes; Expansion of Space; Time
Travel; $E=mc^2$; Universe; Cosmos; Time
Dilation; Length
Contraction; Wormholes; Light
Postulate; Length Contraction; Gravitational
Time Dilation; Time Warp; Space
Warp; Relativity Postulate; Lorentz
Transformation; Light Clock; Relativity of
Simultaneity; Twins Paradox; Equivalence
Principle; Gravity; Spacetime
Curvature; Spacetime Interval; Gaussian Co-
ordinates; Geodesic; Momentum; The Einstein
Equation; Schwarzschild Geometry; Bending of
Starlight; Frame Dragging; Cosmic Microwave
Background; Geometry of Universe; Flat
Universe; Critical Density; Dark Matter; Dark
Energy; Future of Universe

Key Features: Einstein Relatively Simple is the definitive book on Einstein's theories for the lay reader – one that is fun to read, comprehensive, and most important, understandable. Einstein's ideas are explained in everyday language. The book devotes eight chapters to special and a full eight chapters to general relativity. Most popular science books give general relativity only a brief mention or ignore

it altogether

Reviews: "This general relativity theory changed our views on the origin and on the ending (if any) of the universe ... all topics that tickle the imagination of a general public and Egdall, bringing the reader to the point beyond general relativity, does not miss the opportunity to end his guided tour with a sparkling firework of these issues ... it is an entertaining introduction for the layman, that brings the reader a very long way." The European Mathematical Society "He covers the main topics of special and general relativity in a refreshing, personal way. This is a well-crafted, well-documented text with extensive endnotes, in which a bibliography is embedded. He introduces readers to his own unique entry into this very populous genre. Valuable for inquisitive nonscientists." CHOICE "I'm crazy about it. It's the best presentation of relativity for non-scientists that I've seen." Art Hobson Professor Emeritus of Physics University of Arkansas "The writing is jovial and energetic and holds the reader's attention. This book is a

nice introduction to modern physics, with a great biography of Einstein included. This book is recommended for a lay reader with basic algebra skills; high school and beginning college physics students would find it easily accessible." Zentralblatt MATH This book explores how different European education systems manage multilingualism. Each chapter focuses on one of ten diverse settings (Andorra, Asturias, the Basque Country, Catalonia, England, Finland, France, Latvia, the Netherlands and Romania) and considers how its education system is influenced by historical, sociolinguistic and legislative and political processes and how languages are handled within the system, stressing the challenges and opportunities in each area of study. The chapters provide the reader with insights around three key aspects: the management of the guarantee of the rights of regional language minorities; the incorporation of the language background inherited by immigrants living in Europe (whether they are European citizens or not) and the need to promote the learning of international

languages. Individually, the chapters offer deep insights into a specific education system and, together, the studies allow for a comparison and holistic understanding of multilingualism in European education. This volume analyses the prospects and challenges of the African Court of Justice and Human and Peoples' Rights in context. The book is for all readers interested in African institutions and contemporary global challenges of peace, security, human rights, and international law. This title is also available as Open Access on Cambridge Core. Modern Land Law is one of the most current and reliable textbooks available on land law today, offering a lively and thought-provoking account of a subject that remains at the heart of our legal system. Dispelling any apprehension about the subject's formidability from the outset, this compact textbook provides an absorbing and exact analysis of all the key legal principles relating to land. Written with students firmly in mind, a clear introduction to every chapter frames each topic in its wider context and

corresponding chapter summaries help to consolidate learning and encourage reflection. The 12th edition has been thoroughly revised and updated to address key developments in the law, featuring new cases such as *Regency Villas v Diamond Resorts*, analysis of changes to significant case law in land registration and co-ownership, recent Law Commission reports on land registration and leases, and HM Land Registry's digital services. This book functions as an essential guide to the safe and effective sedation of pediatric patients outside the operating room. It is a multidisciplinary reference that features an international authorship and is also of use for a broad range of specialists who deliver pediatric sedation in the non-OR setting. Organized into four parts, *Pediatric Sedation Outside of the Operating Room 3rd edition*, begins with the foundational history of the pediatric sedation field. Subsequent chapters explore the basics of procedural sedation, pre-sedation assessments, and sedation policies across various specialties and continents. Part two then examines a

multitude of sedation models divided by geographical location and subspecialty. Following this, Part three delves into standards of safety in sedation, including medicolegal risk factors, neurocognitive side effects, and aspiration risks. The book closes with chapters presenting discussions on the future of sedation, insofar as predictions for the role of simulation, medical malpractice, and the intersection of sedation and marijuana. An updated invaluable successor edition, *Pediatric Sedation Outside of the Operating Room 3rd edition* is accessible to a diverse group of sedation providers from all specialties. This textbook is an invaluable and necessary addition to all sedation providers worldwide. Take a fresh, new approach to nursing fundamentals that teaches students how to think, learn, and do while they make the 'connections' each step of the way. A clear and accessible introduction to one of the fastest growing and most highly debated spheres of international law. Written by Johns Hopkins University School of Medicine faculty and surgical

residents, the second edition of *The Johns Hopkins ABSITE Review Manual* delivers comprehensive coverage of the American Board of Surgery In-Training Examination through two full-length practice tests. Both tests are based on actual key words from recent ABSITEs, and are accompanied by test review sections, which go over every practice test question and answer, providing rationales behind surgical decision-making. ABSITE-style question format familiarizes readers with the test's presentation and content. This edition features twice the number of questions as in the previous edition, offering even more opportunities for self-paced review. Rationales for correct and incorrect responses help to identify the test-taker's strengths and weaknesses. This book is ideal not only for those preparing for the ABSITE, but also for surgeons and residents studying for the general surgery qualifying exam and for all surgical residents seeking to review key topics during rotations. For fifteen years Sue Eisenfeld hiked in Shenandoah National Park in the Virginia Blue Ridge

Mountains, unaware of the tragic history behind the creation of the park. In this travel narrative, she tells the story of her on-the-ground discovery of the relics and memories a few thousand mountain residents left behind when the government used eminent domain to kick the people off their land to create the park. With historic maps and notes from hikers who explored before her, Eisenfeld and her husband hike, backpack, and bushwhack the hills and the hollows of this beloved but misbegotten place, searching for stories. Descendants recount memories of their ancestors "grieving themselves to death," and they continue to speak of their people's displacement from the land as an untold national tragedy. Shenandoah: A Story of Conservation and Betrayal is Eisenfeld's personal journey into the park's hidden past based on her off-trail explorations. She describes the turmoil of residents' removal as well as the human face of the government officials behind the formation of the park. In this conflict between conservation for the benefit of a nation and private land

ownership, she explores her own complicated personal relationship with the park--a relationship she would not have without the heartbreak of the thousands of people removed from their homes. The Open Government Review of Brazil provides an evidence-based assessment of the country's open government agenda against the ten provisions of the OECD Recommendation of the Council on Open Government. This book explores the implications of European and Eurasian integration projects for the constitutional orders of post-Soviet countries. On the one hand, the process of Eurasian integration, culminating in the establishment of the Eurasian Economic Union (EAEU), led to the creation of new institutions and mechanisms influencing the domestic legal order of the participating countries. On the other hand, the process of European integration, epitomised through the European Union (EU), constitutes an important source of reference for domestic constitutional developments in the countries which recently concluded a new generation of Association Agreements with the EU. This

book analyses the implications of both processes. The book addresses the relevant experience of the countries from Central and Eastern Europe with transitional constitutionalism, mapping out the significance of European and Eurasian integration for protecting the rule of law in the post-Soviet space and identifying the constitutional implications and challenges of the EAEU and the new generation of Association Agreements. It also provides detailed country reports on national constitutional orders in the post-Soviet space and their adaptability to regional integration projects, authored by leading academics from the countries concerned, providing a number of general reflections about the evolution of post-Soviet constitutions in light of European and Eurasian integration projects.

Honouring Professor A.H.A. Soons, scholar and practitioner of international law, this *Liber Amicorum* identifies gaps or 'wrong norms' in specific fields of international law, and addresses the fundamental question of what is wrong with international law as a system for

creatiing global public order. The Second Law, a cornerstone of thermodynamics, governs the average direction of dissipative, non-equilibrium processes. But it says nothing about their actual rates or the probability of fluctuations about the average. This interdisciplinary book, written and peer-reviewed by international experts, presents recent advances in the search for new non-equilibrium principles beyond the Second Law, and their applications to a wide range of systems across physics, chemistry and biology. Beyond The Second Law brings together traditionally isolated areas of non-equilibrium research and highlights potentially fruitful connections between them, with entropy production playing the unifying role. Key theoretical concepts include the Maximum Entropy Production principle, the Fluctuation Theorem, and the Maximum Entropy method of statistical inference. Applications of these principles are illustrated in such diverse fields as climatology, cosmology, crystal growth morphology, Earth system science, environmental physics, evolutionary

biology and technology, fluid turbulence, microbial biogeochemistry, plasma physics, and radiative transport, using a wide variety of analytical and experimental techniques. *Beyond The Second Law* will appeal to students and researchers wishing to gain an understanding of entropy production and its central place in the science of non-equilibrium systems - both in detail and in terms of the bigger picture. *Issues in Gastroenterology and Hepatology / 2013 Edition* is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Additional Research. The editors have built *Issues in Gastroenterology and Hepatology: 2013 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about Additional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Issues in Gastroenterology and Hepatology: 2013 Edition* has been produced by the world's leading scientists, engineers,

analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

'Casebook on Contract Law' provides students with a comprehensive selection of the cases most likely to be encountered on contract law courses and is specifically designed to meet their needs. From mRNA vaccines to gene therapies, the next frontier of medical innovation is here. In *Building Breakthroughs*, Raju Prasad tells the story of important advancements in biotechnology and medical innovation from gene therapies to mRNA vaccines, providing historical context and examining cutting-edge research. Based on in-depth interviews with both the scientists who developed these discoveries and the patients who have benefited from them, *Building Breakthroughs* reveals the key

players behind drug development and the inner workings of this essential business. Through stories of patients and their families, and of the researchers creating new treatments, Prasad reveals how cell therapies are advancing to treat childhood leukemia and a form of lymphoma, how a gene therapy was established to treat the rare disease spinal muscular atrophy type I, and potentially curative therapies that are being developed for sickle cell disease. By examining the clinical trial and regulatory paths each therapy took to reach approval, Prasad uncovers the building blocks of biotechnology innovation and the investments that must be made to catalyze the development of future breakthroughs. He also explores issues of scientific communication and misinformation, providing recommendations for improvements in the future. For those seeking to understand the vitally important processes that lead to new medicines and the surrounding ecosystem that is enabling the next generation of innovative medicines with the potential to transform patient outcomes, Building

Breakthroughs is essential reading. To publish a book on colonoscopy suitable for an international medical audience, drawing upon the expertise and talents of many outstanding world-wide clinicians, is a daunting task. New developments in videocolonoscopy instruments, procedural technique, patient selection and preparation, and moderate sedation and monitoring are being made and reported daily in both the medical and the lay press. Just as over the last several decades colonoscopy has largely supplanted the use of barium enema x-ray study of the colon, new developments in gastrointestinal imaging such as computerized tomographic colonography and video transmitted capsule study of the colonic lumen and new discoveries in cellular and molecular biology that may facilitate the early detection of colon cancer, colon polyps and other gastrointestinal pathology threaten to relegate the role of screening colonoscopy to the side lines of medical practice. This book draws on the talents of renowned physicians who convey a sense of the

history, the present state-of-the art and ongoing confronting issues, and the predicted future of this discipline. The main objective of this Research Topic is to determine the conditions that place students at risk of school failure, identifying student and context variables. In spite of the fact that there is currently little doubt about how one learns and how to teach, in some countries of the "developed world," there is still there is a high rate of school failure. Although the term "school failure" is a very complex construct, insofar as its causes, consequences, and development, from the field of educational psychology, the construct "student engagement" has recently gained special interest in an attempt to deal with the serious problem of school failure. School engagement builds on the anatomy of the students' involvement in school and describes their feelings, behaviors, and thoughts about their school experiences. So, engagement is an important component of students' school experience, with a close relationship to achievement and school

failure. Children who self-set academic goals, attend school regularly and on time, behave well in class, complete their homework, and study at home are likely to interact adequately with the school social and physical environments and perform well in school. In contrast, children who miss school are more likely to display disruptive behaviors in class, miss homework frequently, exhibit violent behaviors on the playground, fail subjects, be retained and, if the behaviors persist, quit school. Moreover, engagement should also be considered as an important school outcome, eliciting more or less supportive reactions from educators. For example, children who display school-engaged behaviors are likely to receive motivational and instructional support from their teachers. The opposite may also be true. But what makes student engage more or less? The relevant literature indicates that personal variables (e.g., sensory, motor, neurodevelopmental, cognitive, motivational, emotional, behavior problems, learning difficulties,

addictions), social and/or cultural variables (e.g., negative family conditions, child abuse, cultural deprivation, ethnic conditions, immigration), or school variables (e.g., coexistence at school, bullying, cyberbullying) may concurrently hinder engagement, preventing the student from acquiring the learnings in the same conditions as the rest of the classmates.

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