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Lecture Notes on Clinical Medicine has a long-standing reputation for excellence and is a must-have in the run-up to final examinations and throughout the clinical years. It offers a concise summary of the essential information needed for practising clinical medicine. The book is divided into two sections: Part 1 focuses on the clinical examination of each body system, and Part 2 summarises the core knowledge required for the understanding of specific diseases relevant to each body system. The key to the book's success lies in the first part which is structured and styled very much in the manner of a manual on techniques of physical examination. The book helps the examination candidates carry out an examiner's request to perform a specific examination and hence is an excellent preparation tool for OSCEs. Description of the clinical approach is built around the questions most commonly asked and is designed to get medical

students to work systematically as if they have been practising medicine for years. The second part of the book is a short textbook of medicine: a summary of basic clinical facts, organised by body system, and under the usual headings of clinical presentation, investigation and management. This textbook is an introduction and guide to undergraduate surgery. It has been a bestseller since its first edition in 2001. The philosophy of this book is to focus on the level of knowledge and the approach that would be expected of the better students reaching the end of their undergraduate training. Avoiding a book that is too cumbersome, we have tried to make this book readable and enjoyable as well as using various techniques to help the reader remember key facts. In addition to general surgery, the book contains sections on trauma, orthopaedics, urology and ENT making it the only comprehensive textbook for medical students wishing to learn top tips in surgery.

Subjects that are poorly covered in all the main texts are dealt with in a tutorial fashion in this book, such as fluid balance management and minor surgical procedures and there is a section on how to problem solve even in the context of areas unknown to the student. This book is useful for medical students and also for junior doctors during their day to day working lives as well as those coming up to postgraduate exams. The text has been deliberately written in a tutorial-like story format as opposed to a set of lists, since this makes it easier to understand and remember. Each chapter is written by an authoritative author alongside the book editors who have ensured it remains in the spirit of the bestselling previous editions. Lecture Notes: Urology is a best-selling concise introduction to urology, presenting the essential core knowledge for medical students and junior doctors. It emphasises clinical presentations and diagnostic problem-solving, providing an

integrated approach to understanding the renal system and urinary tract. This new edition has been fully revised and re-written with a new format, design and artwork, and now includes a section on interstitial brachytherapy for early prostate cancer and laparoscopic radical prostatectomy, coverage of imaging and surgical techniques, and a self-assessment section of MCQs. It explains all the important aspects of urology in a simple, clearly written and concise way, with a comprehensive overview of normal structure and function, and guidance on the specifics of history and examination relevant to this body system. It systematically covers the pathology of the diseases which affect normal function, explaining the principles of treatment and management. Lecture Notes: Urology will prove invaluable as a well-balanced introduction to urology and a rapid revision guide for final exams for junior doctors, medical students and allied health professionals.

Reviews of the previous edition "...this work provides a highly comprehensive and approachable guide to urology." British Journal of Surgery "...there is much to recommend in this book for undergraduates and there is no doubt that it will be widely read by medical students." British Journal of Urology "A very comprehensive and detailed account of urology for medical students. Good diagrams, well thought out presentation and style and a layout very friendly to the reader." Cambridge Medicine Titles of related interest The Renal System at a Glance, Third Edition O'Callaghan September 2009 9781405184724 Nephrology: Clinical Cases Uncovered Clatworthy Forthcoming 9781405189903 Urology Lecture Notes contains all the essential knowledge for medical students, junior doctors and early-stage trainees involved in urology placements or urological surgery. With a strong emphasis on clinical

presentation, procedures and surgery, it provides an accessible, conversational guide to all the situations likely to be encountered on the wards. Key features include: • Extensive illustration to clearly demonstrate relevant procedures, conditions, and physiology • Important information flagged up in key points • Self-assessment MCQs to test and help consolidate knowledge Whether you are preparing for your first urology rotation or looking for a quick reference to all aspects of the system, Urology Lecture Notes provides key support to all students, junior doctors and trainees involved in this speciality. Urology has always been an essential part of a doctor's work, but because today's medical undergraduate's curriculum is so crowded, it has become even more necessary to prune away those matters that are probably only relevant to the trainee surgeon. A must-have companion for medical students and junior doctors for almost four decades, Lecture

Notes: Clinical Pharmacology and Therapeutics provides concise yet thorough coverage of the principles of clinical pharmacology, the major characteristics of therapeutics, and the practical aspects of prescribing drugs to alleviate symptoms and to treat disease. Whether you are preparing for examinations or prescribing to patients, the tenth edition offers readers current and authoritative insight into the essential practical and clinical knowledge. Logically organised chapters allow for rapid location of key information, while examples of commonly encountered scenarios illustrate how and when to use drugs in clinical situations. Throughout the text, practice questions, prescribing guidelines, and self-assessment tests clarify and reinforce the principles that inform appropriate clinical decision-making. Presents an up-to-date review of drug use across all major clinical disciplines Offers a timely overview of clinical drug trials and development Provides new clinical scenarios

to relate chapter content to real-life application Contains colour-coded “Key Points” and “Prescribing Points” to highlight important information Includes chapter introductions and summaries, and numerous figures, tables, and colour illustrations Lecture Notes: Clinical Pharmacology and Therapeutics, Tenth Edition, is an essential resource for medical students, junior doctors, and other prescribers looking for an up-to-date reference on pharmacological principles, prescribing, and therapeutics. This book gathers the lecture notes of courses given at the 2011 summer school in theoretical physics in Les Houches, France, Session XCVI. What is a quantum machine? Can we say that lasers and transistors are quantum machines? After all, physicists advertise these devices as the two main spin-offs of the understanding of quantum mechanical phenomena. However, while quantum mechanics must be used to predict the wavelength of a laser and the operation

voltage of a transistor, it does not intervene at the level of the signals processed by these systems. Signals involve macroscopic collective variables like voltages and currents in a circuit or the amplitude of the oscillating electric field in an electromagnetic cavity resonator. In a true quantum machine, the signal collective variables, which both inform the outside on the state of the machine and receive controlling instructions, must themselves be treated as quantum operators, just as the position of the electron in a hydrogen atom. Quantum superconducting circuits, quantum dots, and quantum nanomechanical resonators satisfy the definition of quantum machines. These mesoscopic systems exhibit a few collective dynamical variables, whose fluctuations are well in the quantum regime and whose measurement is essentially limited in precision by the Heisenberg uncertainty principle. Other engineered quantum systems based on

natural, rather than artificial degrees of freedom can also qualify as quantum machines: trapped ions, single Rydberg atoms in superconducting cavities, and lattices of ultracold atoms. This book provides the basic knowledge needed to understand and investigate the physics of these novel systems. This textbook is an introduction and guide to undergraduate surgery. It has been a bestseller since its first edition in 2001. The philosophy of this book is to focus on the level of knowledge and the approach that would be expected of the better students reaching the end of their undergraduate training. Avoiding a book that is too cumbersome, we have tried to make this volume readable and enjoyable, using various techniques to help the reader remember key facts: the text has been deliberately written in a tutorial-like story format as opposed to a set of lists, since this makes it easier to understand and remember. In addition to general surgery, the book contains sections on

trauma, orthopaedics, urology and ENT, making it the only comprehensive textbook for medical students wishing to learn top tips in surgery. Subjects that are poorly covered in other main texts — such as fluid balance management and minor surgical procedures — are dealt with in a tutorial fashion in this book, and there is a section on how to problem-solve even in the context of areas unknown to the student. This book is useful for medical students and also for junior doctors during their day-to-day working lives, as well as those coming up to postgraduate exams. Each chapter is written by an authoritative author, alongside the book editors, and they have ensured it remains in the spirit of the bestselling previous editions. Foreword Foreword (31 KB) In July 2009, many experts in the mathematical modelling of biological sciences gathered in Les Houches for a 4-week summer school on the mechanics and physics of biological systems. The goal of

the school was to present to students and researchers an integrated view of new trends and challenges in physical and mathematical aspects of biomechanics. While the scope for such a topic is very wide, we focused on problems where solid and fluid mechanics play a central role. The school covered both the general mathematical theory of mechanical biology in the context of continuum mechanics but also the specific modelling of particular systems in the biology of the cell, plants, microbes, and in physiology. These lecture notes are organised (as was the school) around five different main topics all connected by the common theme of continuum modelling for biological systems: Bio-fluidics, Bio-gels, Bio-mechanics, Bio-membranes, and Morphogenesis. These notes are not meant as a journal review of the topic but rather as a gentle tutorial introduction to the readers who want to understand the basic problematic in modelling

biological systems from a mechanics perspective. Always study with the most up-to-date prep! Look for USMLE Step 2 CK Lecture Notes 2018: Internal Medicine, ISBN 9781506220802, on sale September 5, 2017. Toronto Notes for Medical Students is proud to present the 35th Edition of the highly successful Essential Med Notes textbookseries. This 2019 edition featuresbrand new content to reflect the most recent updates for medical licensing exams, along with a new layout across all 31 chapters for enhanced readability. Content updates across the main text, figures, graphics, and evidence-based medicine sections further enhance preparation for USMLE Step 2. A number of landmark trials have been included to reflect the most current evidence across all medical specialties. As a not-for-profit organization, all our proceeds from book sales are donated to support medical student activities, charity events, and community

outreach programs over the past years. Essential Med Notes 2019 Key Features: Brand new content reflective of essential clinical knowledge and skills for enhanced clinical performance and USMLE Step 2 preparation A concise textbook with in-depth coverage of 31 medical specialties Up-to-date DSM-5 criteria and Evidence-Based Medicine highlights Our website features online resources, including a Colour Atlas, ECGs Made Simple tutorial, Heart Sounds tutorial, Essentials of Medical Imaging, over 50 Practice OSCE stations, and much more! A Clinical Handbook highlighting common clinical management scenarios and helpful tips on clerkship basics - a perfect size to carry on the wards. This has also been updated to be reflective of the latest evidence and USMLE objectives! Stat Notes: The ultimate guide to managing on-call issues, this pocketbook features a step-by-step approach for 30 common ward scenarios Following the undergraduate curriculum set

by the British Association of Urological Surgeons, Urology at a Glance offers practical advice on diagnosis and management of one of the most rapidly developing medical specialties. Building on basic science, the book provides an overview of clinical approaches to assist the medical student or junior doctor on rotation, as well as looking at practical procedures and specific details of the most commonly encountered urological disorders. Vibrantly illustrated and containing common clinical scenarios, Urology at a Glance provides all the information and latest guidelines needed for a medical student or junior doctor to excel in this field. The Les Houches Summer School in August 2015 covered the emerging fields of cavity optomechanics and quantum nanomechanics. Optomechanics is flourishing and its concepts and techniques are now applied to a wide range of topics. Modern quantum optomechanics was born in the late 1970s in the framework of gravitational

wave interferometry, with an initial focus on the quantum limits of displacement measurements. Carlton Caves, Vladimir Braginsky, and others realized that the sensitivity of the anticipated large-scale gravitational-wave interferometers (GWI) was fundamentally limited by the quantum fluctuations of the measurement laser beam. After tremendous experimental progress, the sensitivity of the upcoming next generation of GWI will effectively be limited by quantum noise. In this way, quantum-optomechanical effects will directly affect the operation of what is arguably the world's most impressive precision experiment. However, optomechanics has also gained a life of its own with a focus on the quantum aspects of moving mirrors. Laser light can be used to cool mechanical resonators well below the temperature of its environment. After proof-of-principle demonstrations of this cooling in 2006, a number of systems were used as the field gradually merged with its

condensed matter cousin (nanomechanical systems) to try to reach the mechanical quantum ground state, eventually demonstrated in 2010 by pure cryogenic techniques and just one year later by a combination of cryogenic and radiation-pressure cooling. The book covers all aspects -- historical, theoretical, experimental -- of the field, with its applications to quantum measurement, foundations of quantum mechanics and quantum information. It is an essential read for any new researcher in the field. Urology continues to be one of the most rapidly advancing specialties. Approximately 20% of all surgical operations and a similar percentage of surgical emergencies are urological in nature. However, often doctors have very limited experience of the many common and varied conditions encountered in this important surgical specialty. For the doctor or nurse expected to provide the initial assessment and management of a condition with which he or

she has had very limited experience, this handbook provides an invaluable source of information and advice. Covering a wide spectrum of diseases and their treatment in the field of urology and surgical aspects of kidney, bladder, prostate and scrotal disorders, this handbook aims to give a brief overview of many different urological subjects including urological emergencies, cancers, infections, children's disorders and kidney stone disease. It is designed so that it can be quickly and efficiently accessed by a range of professionals involved in patient care, including medical students, nurses, surgical and urology doctors and general practitioners. Thoroughly revised for the third edition, the Oxford Handbook of Urology covers all recent guidelines and criteria including the significant advances in medical and surgical options that are now available to patients; key papers and national recommendations in the field of

neurourology; expanded information on medical therapy of bladder overactivity and additional information on subjects including urethral diverticulum, pelvic organ prolapse, dialysis and renal transplantation, antenatal hydronephrosis, megaureters, and incontinence in children. An invaluable tool relevant not only to specialist trainees and specialist registrars on urology and surgical rotations, but also to general practitioners, emergency staff and the growing number of urological specialist nurses. This volume, 106 of the Les Houches Summer School series, brings together applications of integrability to supersymmetric gauge and string theory. The book focuses on the application of integrability and problems in quantum field theory. Particular emphasis is given to the exact solution of planar $N=4$ super-Yang-Mills theory and its relation with string theory on the one hand, and the exact determination of the low-energy physics of $N=2$ super-Yang-Mills theories on

the other; links with other domains are also explored. The purpose of the Les Houches Summer School was to bring together young researchers and specialists from statistical physics, condensed matter physics, gauge and string theory, and mathematics, to stimulate discussion across these different research areas. This text gathers the lecture notes of the Les Houches Summer School that was held in October 2013 for an audience of advanced graduate students and post-doctoral fellows in statistical physics, theoretical physics, machine learning, and computer science. Platelet-Rich Plasma (PRP) has gained tremendous popularity in recent years as a treatment option for specialties including Orthopedics, Dentistry, Sports Medicine, Otorhinolaryngology, Neurosurgery, Ophthalmology, Urology, Vascular, Cardiothoracic and Maxillofacial Surgery, and Veterinarian Medicine. Nowadays, PRP and Stem Cell Science have added an exciting

dimension to tissue repair. This book begins by giving the reader a broad overview of current progress as well as a discussion of the technical aspects of preparation and therapeutic use of autologous PRP. It is followed by a review of platelet structure, function and major growth factors in PRP (PDGF and TGF β). The third chapter outlines the basic principles of biochemical cellular metabolism that increases the efficacy of PRP. Analogous to the preparation of soil for a garden, restoring cellular health should be the first consideration in Regenerative Medicine. Standardization of PRP preparation to clinical use still remains a challenging prospect. In this sense, a feasible strategy for studying PRP preparation is illustrated, which also allows to modulate and tailor the quality of PRP for further clinical applications. The science behind PRP and stem cells, on tissue regeneration, cell proliferation and mesenchyme stem-cells are emphasized and reviewed.

Various specific uses of PRP are described with detailed illustrations of various personal experiences mainly in orthopedic injuries, ligament and tend on repair, degenerative diseases, sports medicine, chronic wound healing as well as rehabilitation aspects in tendinopathy. Expertly written by leading scientists in the field, this book provides for beginners and experienced readers scientific fundamentals, the state of art of PRP, specific uses and personal experiences with a practical approach and reference for current trends in use. Finally, this book paves the way for future developments. Paediatrics Lecture Notes covers the core aspects of caring for children in clinical practice, offering concise yet detailed information on examination, emergency care, nutrition, immunisation, infant and adolescent health, and more. Designed for medical students and junior doctors alike, this compact and easy-to-use

textbook guides readers through each essential aspect of paediatric care, from normal and abnormal childhood development, to cardiology, gastroenterology and metabolic disorders. Throughout the text, key points, practice questions, treatment guides, learning logs and self-assessment tests help prepare readers for paediatric rotations and clinical examinations. Now in its tenth edition, this classic textbook features new and updated information that reflects changes in practice and recent advances in child and adolescent health. Providing a clear and accessible overview of paediatrics, this invaluable single-volume resource: Presents an overview of paediatrics, including expanded materials on genetics, differential diagnosis, investigation for common presentations, and treatment and management of various conditions Offers real-life advice and practical ways of gaining experience in paediatrics and career development Includes OSCE

stations, examination review tips, extended matching questions and additional online learning resources Features an enhanced Symptom Sorter to quickly determine which conditions should feature in differential diagnoses

Paediatrics Lecture Notes, Tenth Edition is a must-have guide for medical students and junior doctors in paediatric placements and preparing for clinical examinations. Urology has undergone many changes since the last Lecture Notes on Urology was revised. Once again, almost a complete rewrite has been necessary: some out-of-date topics have been dropped and new and exciting material added. At no time has urology not been an essential part of the work of a physician, but today the medical undergraduate's curriculum is so crowded that it becomes even more necessary to prune away those matters that are probably only relevant to the trainee surgeon. Data assimilation aims at determining as accurately as possible the state of a

dynamical system by combining heterogeneous sources of information in an optimal way. Generally speaking, the mathematical methods of data assimilation describe algorithms for forming optimal combinations of observations of a system, a numerical model that describes its evolution, and appropriate prior information. Data assimilation has a long history of application to high-dimensional geophysical systems dating back to the 1960s, with application to the estimation of initial conditions for weather forecasts. It has become a major component of numerical forecasting systems in geophysics, and an intensive field of research, with numerous additional applications in oceanography, atmospheric chemistry, and extensions to other geophysical sciences. The physical complexity and the high dimensionality of geophysical systems have led the community of geophysics to make significant contributions to the fundamental theory of

data assimilation. This book gathers notes from lectures and seminars given by internationally recognized scientists during a three-week school held in the Les Houches School of physics in 2012, on theoretical and applied data assimilation. It is composed of (i) a series of main lectures, presenting the fundamentals of the most commonly used methods, and the information theory background required to understand and evaluate the role of observations; (ii) a series of specialized lectures, addressing various aspects of data assimilation in detail, from the most recent developments of the theory to the specificities of various thematic applications. Computer applications in medical care have been greatly increasing during the last ten years. Combined with other electronic devices, computers can produce images which represent human organ sections. Such a way to get informations on patient organs widely improves diagnosis and surgery efficiency. But we can

go through a new step by generating three dimensional models of these organs and by displaying them. Most of research in this area focuses on the visualization process. But, in order to efficiently exploit the data collected and processed by the computer, we need to create a high-level three-dimensional model of the organ to be displayed. An interactive approach to get such a model is described in this paper as the way to use it for the study of kidney anatomy. I. 20 and 30 data visualization in medical care Classical X-ray radiographs give us a projection of human body inner parts, with an enhancement of high-density elements. But they cannot give us a complete view of organs, such as in cross-sections. Recent imaging techniques solve this problem, usually by computing those sections from a set of projections along different directions. Physicians can then get a full examination of organs by using such equipments as X-ray scanners or those producing Magnetic

Resonance, ultrasonic or radionuclide images. The information collected on the organ (density, acoustic property, etc. The tenth edition of Lecture Notes on General Surgery continues to be a concise, best-selling textbook of surgery, which has helped hundreds of thousands of students pass finals. In addition, many MRCS candidates now use the book as a rapid revision aid on the principles of surgery. This edition has been completely revised and updated. Urology for Medical Students and Junior Doctors is a grab-and-go text book that can be used at home, on the wards or in clinical environments. Covering the entire undergraduate curriculum set by the British Association of Urological Surgeons (BAUS), it includes information on the diagnosis, investigation and management of conditions commonly seen in Urology. Urology for Medical Students and Junior Doctors is clear and concise and covers your entire curriculum. It is colourful with illustrations,

flow charts and tables designed to make learning and revision easy. This textbook will help guide you through Urology for medical school examinations and will prove invaluable when working as a junior doctor. This book has been created with 2 aims: 1. To provide an accurate, relevant and accessible revision resource at the lowest price possible to benefit students and junior doctors. 2. To raise money for charity. By purchasing this book you will be donating to charities who fund medical research and medical education. Reviews: "Urologists often remark that our subject is poorly covered in medical school curricula; therefore, when we have students attached to our departments, it is beholden on us to maximise their learning opportunities. This book should help, since its strengths are accessibility and that it is written in simple language without ever being patronising. I could imagine a student attending a clinic and being able to rapidly match the case in front of them with the

relevant section, and doing exactly the same whilst shadowing on-call. Once qualified, whatever the specialty they are working in, they could refresh their knowledge "on the job" with this readily available aide-mémoire to better allow them to deal with pre-existing and newly diagnosed urological conditions and emergencies. This, then, is a most welcome, concise adjunct to learning and practising Urology for medical students and junior doctors."

Dominic Hodgson Consultant Urological Surgeon and Chairman of the British Association of Urological Surgeons Education Committee

Chapters 1. Foreword 2. Urological emergencies 3. Renal pathology 4. Bladder pathology 5. Prostate pathology 6. Scrotal pathology 7. Penile pathology 8. Incontinence 9. Urinary tract infections 10. Practical tips for junior doctors 11. References and further reading

About the Author Ricky Ellis is a Urology Specialist Registrar working in the East Midlands, U.K. He is

also a Research Fellow for the Intercollegiate Committee for Basic Surgical Examinations (ICBSE), undertaking research with the aim of improving medical education, examinations and selection methods. Ricky organises Urology teaching courses including the 'Urology Boot Camp for Medical Students', which was recently nominated for several excellence awards. He is passionate about improving training for medical students and junior doctors. This book provides authoritative tutorials on the most recent achievements in the field of quantum gases at the interface between atomic physics and quantum optics, condensed matter physics, nuclear and high-energy physics, non-linear physics, and quantum information. To-the-point information on more than 1000 diseases and disorders surgeons are most likely to encounter

The leading single-source surgery book for house-staff, students, practitioners, and surgeons A Doody's Core Title for 2011! "This is an

excellent source of updated, authoritative, and concise information on diseases encountered in general surgery and the surgical subspecialties of otolaryngology, urology, gynecology, orthopedics, plastic and reconstructive surgery, and pediatrics....This is a wonderful resource for all levels of surgical practitioners as well as nonsurgical practitioners. In my experience, it has provided me with a framework to prepare for both oral and written boards. 3 Stars."--Doody's Review Service Authoritative, concise, and completely up-to-date, CURRENT Diagnosis & Treatment Surgery features: Wide-ranging coverage that encompasses general surgery and all the important subspecialties including otolaryngology, urology, gynecology, orthopedics, plastic and reconstructive surgery, and pediatrics References linked to recent journal articles Logical quick-find organization made even more accessible by a comprehensive index More

than 600 informative photographs and illustrations Detailed treatment algorithms NEW CD-ROM with content from Quick Answers: Surgery to speed diagnosis of symptoms and signs NEW Chapter on Training, Communication, Professionalism, and Systems-Based Practice Completely rewritten chapters on Wound Healing, Anesthesia, Otolaryngology/Head & Neck Surgery, The Heart, Neurosurgery, Gynecology, and Orthopedics Don't panic! "Crash Course" is here-tDhat perfect set of lecture notes which no student ever really has the time to compile. These books deliver all of the information needed to get through a course or prepare for exams. Clear text covers the essential concepts of each discipline or specialty; learning features expedite mastery of the material; and review questions let readers assess their knowledge. With basic science books written by current medical students under faculty supervision, and clinical titles that pair senior

specialists with doctors who have only recently begun training in the relevant field, Crash Course titles are designed to ideally meet the needs of today's medical students. Clear, concise, narrative-style text covers exactly what students need to know-no more, no less. Abundant two-color diagrams explain key concepts in an interesting visual way. Learning features such as "hints and tips" and "comprehension check" boxes simplify study. Blandy's Urology, 3rd edition is set to become a classic in its field, the latest edition of one of the most well-loved general urology textbooks for urologists and surgeons alike, successfully combining both general urology and urologic surgery. Its key strength is the unique 'Blandy way' of describing urological diseases and their management, consisting of: clear, straightforward, uncomplicated descriptions of disease/conditions, including hundreds of clinical photos and

abundance of outstanding drawn surgical diagrams to illustrate best technique in the operating theatre a focus on the most commonly seen problems in the clinic organization of each topic under anatomical headings Especially loved by urology and surgery trainees for its straightforward approach to the speciality and as a preparation for speciality urology exams, consultants and specialists also value it as a handy refresher tool. The field of stochastic processes and Random Matrix Theory (RMT) has been a rapidly evolving subject during the last fifteen years. The continuous development and discovery of new tools, connections and ideas have led to an avalanche of new results. These breakthroughs have been made possible thanks, to a large extent, to the recent development of various new techniques in RMT. Matrix models have been playing an important role in theoretical physics for a long time and they are currently also a very

active domain of research in mathematics. An emblematic example of these recent advances concerns the theory of growth phenomena in the Kardar-Parisi-Zhang (KPZ) universality class where the joint efforts of physicists and mathematicians during the last twenty years have unveiled the beautiful connections between this fundamental problem of statistical mechanics and the theory of random matrices, namely the fluctuations of the largest eigenvalue of certain ensembles of random matrices. This text not only covers this topic in detail but also presents more recent developments that have emerged from these discoveries, for instance in the context of low dimensional heat transport (on the physics side) or integrable probability (on the mathematical side). Since 1951, the prestigious Les Houches summer school has given rigorous graduate programmes in France. In July 2009, the first Les Houches school outside Europe took place in Singapore. This volume gathers the lectures

conducted at the four-week school, focused on two exciting key topics: quantum information science and ultracold atomic physics. Many of the distinctive and useful phenomena of soft matter come from its interaction with interfaces. Examples are the peeling of a strip of adhesive tape, the coating of a surface, the curling of a fiber via capillary forces, or the collapse of a porous sponge. These interfacial phenomena are distinct from the intrinsic behavior of a soft material like a gel or a microemulsion. Yet many forms of interfacial phenomena can be understood via common principles valid for many forms of soft matter. Our goal in organizing this school was to give students a grasp of these common principles and their many ramifications and possibilities. The Les Houches Summer School comprised over fifty 90-minute lectures over four weeks. Four four-lecture courses by Howard Stone, Michael Cates, David Nelson and L. Mahadevan served as an anchor for the

program. A number of shorter courses and seminars rounded out the school. This volume collects the lecture notes of the school. The topic of the CVIII session of the Ecole de Physique des Houches, held in July 2017, was Effective Field Theory in Particle Physics and Cosmology. Effective Field Theory (EFT) is a general method for describing quantum systems with multiple length scales in a tractable fashion. It allows to perform precise calculations in established models (such as the Standard Models of particle physics and cosmology), as well as to concisely parametrise possible effects from physics beyond the Standard Models. The goal of this school was to offer a broad introduction to the foundations and modern applications of Effective Field Theory in many of its incarnations. This is all the more important as there are preciously few textbooks covering the subject, none of them in a complete way. In this book, the lecturers present the concepts in a pedagogical way so that readers can adapt some

of the latest developments to their own problems. The chapters cover almost all the lectures given at the school and will serve as an introduction to the topic and as a reference manual to students and researchers. In the face of information overload when revising for your final exams, what you want is a revision book that provides all the key facts you need to know and none that you don't. Complete Revision Notes for Medical and Surgical Finals does just that, presenting information in a stimulating way, which in turn enables easy recall. Structured by medical and surgical specialties, the contents are organised in a weighted fashion to reflect coverage in undergraduate curricula. With pharmacology and pathology integrated throughout, this second edition covers all the key topics in: Medicine * Surgery * Paediatrics * Obstetrics & Gynaecology * Psychiatry * Orthopaedics * ENT * Urology * Ophthalmology * Oncology * Public Health. Effective use is

made of student-friendly codes and bullet points for easy information retrieval, and popular features including textboxes, summary tables and clear and reproducible line diagrams have been retained and improved. Fully revised and updated with the latest medical information, and

including new illustrations, Complete Revision Notes for Medical and Surgical Finals continues to provide an accessible and stimulating route to exam success. If you know what is in this book then you will know enough to pass your finals.