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Humans have a natural instinct to help others. Imagine walking up to a stranger on the subway and asking them for their seat. What about asking a random person on the street if you could borrow their phone? If the idea makes you squeamish, you're not alone--social psychologists have found that doing these very things makes most of us almost unbearably uncomfortable. But here's the funny thing: even though we hate to ask for help, most people are wired to be helpful. And that's a good thing, because every day in the modern, uber-collaborative workplace, we all need to know when and how to call in the cavalry. However, asking

people for help isn't intuitive; in fact, a lot of our instincts are wrong. As a result, we do a poor job of calling in the reinforcements we need, leaving confused or even offended colleagues in our wake. This pragmatic book explains how to get it right. With humor, insight, and engaging storytelling, Heidi Grant, PhD, describes how to elicit helpful behavior from your friends, family, and colleagues--in a way that leaves them feeling genuinely happy to lend a hand. Whether you're a first-time manager or a seasoned leader, getting people to pitch in is what leadership is. Fortunately, people have a natural instinct to help other human beings; you just need to know how to channel this urge into what it is you specifically need them to do. It's not manipulation. It's just management. Corrosion of steel reinforcement in concrete is a major problem, with serious implications for structural integrity and durability particularly for bridges and marine structures. This new book provides a thorough overview of recent developments and applications in this area. It examines the durability, strength and suitability of alternative materials. The approach to psychology advocated by the radical behaviourists was often misunderstood and frequently gave rise to controversy. Originally published in 1974, this book introduced current research in operant conditioning and explains the attempt to understand behaviour inherent in such experiments at the time. After considering the philosophical context in which behaviouristic psychology developed, the author outlines the basic characteristics of operant research by reviewing single experiments on the effects of reinforcement on behaviour. Chapters on schedules of intermittent reinforcement extend this approach to more complex situations and emphasize that behaviour can be maintained and controlled in many different ways by environmental events. The author then discusses recent work on conditional reinforcement and on the discriminative control of behaviour and shows how operant research has changed our understanding of these important concepts in psychology. Subsequent chapters review research within the operant paradigm on the effects on behaviour of punishment, anxiety, aversive stimuli and drugs, again by emphasising the special contribution to these topics made by operant conditioning techniques and methodology. The final chapters consider the general implications of operant research for educational practice and for clinical psychology, and place this approach within the context of psychology as a whole. Dr Blackman argues that it should be recognized as one important attempt to further the scientific analysis of behaviour. This book, filled a long recognized need for an undergraduate text in this area at the time, and helped students form their own evaluation. Now it should be read in its historical context. Reinforcement learning is a learning paradigm concerned with learning to control a system so as to maximize a numerical performance measure that expresses a long-term objective. What distinguishes reinforcement learning from supervised learning is that only partial feedback is given to the learner about the learner's predictions. Further, the predictions may have long term effects through influencing the future state of the controlled system. Thus, time plays a special role. The goal in reinforcement learning is to develop efficient learning algorithms, as well as to understand the algorithms' merits and limitations. Reinforcement learning is of great interest because of the large number of practical applications that it can be used to address, ranging from problems in artificial intelligence to operations research or control engineering. In this book, we focus on those algorithms of reinforcement learning that build on the powerful theory of dynamic programming.We give a fairly comprehensive catalog of learning problems, describe the core ideas, note a large number of state of the art algorithms, followed by the discussion of their theoretical properties and limitations. Principle of Reinforced Concrete introduces the main properties of structural concrete and its mechanical behavior under various conditions as well as all aspects of the combined function of reinforcement and concrete. Based on the experimental investigation, the variation regularity of mechanical behavior, working mechanism, and calculation method are presented for the structural member under various internal forces. After examining the basic principle and analysis method of reinforced concrete, the book covers some extreme circumstances, including fatigue load, earthquake, explosion, high temperature (fire accident), and durability damage, and the special responses and analysis methods of its member under these conditions. This work is valuable as a textbook for post-graduates, and can be used as a reference for university teachers and under-graduates in the structural engineering field. It is also useful for structural engineers engaged in scientific research, design, or construction. Focuses on the principles of reinforced concrete, providing professional and academic readers with a single volume reference Experimental data enables readers to make full use of the theory presented The mechanical behavior of both concrete and reinforcement materials, plus the combined function of both are covered, enabling readers to understand the behaviors of reinforced concrete structures and their members Covers behavior of the materials and members under normal and extreme conditions Makes the controversial argument that reinforcement is a real and valuable force in human behavior. The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning. The Effects of Punishment on Human Behavior is a collection of essays that discusses the procedural and ethical issues of the use of electric shock as a treatment for severe behavior problems. The book presents the different types of extraneous aversives and undesirable side effects of punishment. It demonstrates the effectiveness of punishment procedures. The text describes the various aspects of punishment, as applied to human beings. It discusses the ethical and legal issues that challenge the use of punishment. Another topic of interest is the salient characteristics and influences affecting the success of overcorrection. The section that follows describes the types of punishment. The text also provides a conceptual and methodological analysis of a technique called “timeout. The book will provide valuable insights for psychologists, teachers, students, and researchers in the field of behavioral science. Corrosion-resistant, electromagnetic transparent and lightweight fiber-reinforced polymers (FRPs) are accepted as valid alternatives to steel in concrete reinforcement. Reinforced Concrete with FRP Bars: Mechanics and Design, a technical guide based on the authors’ more than 30 years of collective experience, provides principles, algorithms, and practical examples. Well-illustrated with case studies on flexural and column-type members, the book covers internal, non-prestressed FRP reinforcement. It assumes some familiarity with reinforced concrete, and excludes prestressing and near-surface mounted reinforcement applications. The text discusses FRP materials properties, and addresses testing and quality control, durability, and serviceability. It provides a historical overview, and emphasizes the ACI technical literature along with other research worldwide. Includes an explanation of the key physical mechanical properties of FRP bars and their production methods Provides algorithms that govern design and detailing, including a new formulation for the use of FRP bars in columns Offers a justification for the development of strength reduction factors based on reliability considerations Uses a two –story building solved in Mathcad® that can become a template for real projects This book is mainly intended for practitioners and focuses on the fundamentals of performance and design of concrete members with FRP reinforcement and reinforcement detailing. Graduate students and researchers can use it as a valuable resource. Antonio Nanni is a professor at the University of Miami and the University of Naples Federico II. Antonio De Luca and Hany Zadeh are consultant design engineers. Introductory technical guidance for civil engineers, construction managers and construction inspectors interested in construction of reinforced portland cement concrete pavement for

streets, highways, bridges and other applications. Here is what is discussed: 1. INTRODUCTION 2. SLIPFORM CONSTRUCTION 3. REINFORCEMENT CHECKLIST 4. PLACEMENT OF DOWELS 5. DOWEL CHECKLIST 6. DOWEL SPACING 7. DOWEL PLACEMENT CHECKLIST 8. DOWELLED CONTRACTION JOINTS 9. CONTRACTION JOINT DOWEL CHECKLIST 10. DOWELED CONSTRUCTION JOINTS 11. DOWELS IN CONSTRUCTION JOINT CHECKLIST 12. ALIGNMENT OF DOWELS 13. DOWEL ALIGNMENT CHECKLIST 14. PLACEMENT OF TIE BARS 15. TIEBAR CHECKLIST. Provides in-depth coverage of the physics behind elastomer reinforcement, in particular the use of reinforcing fillers in high-performance rubber. "Positive Reinforcement for Kids: A Basic Guide to Understanding and Practice" explains what positive reinforcement is and what the techniques are for using positive reinforcement in a way parents and caregivers can understand and use.Positive Reinforcement for Kids is written for everyday parents and caregivers who want to expand their parenting toolkit and options. Most books on the subject are written by academics and/or psychiatrists and tend to be technical, dry and not very user friendly. The audience for many of these books is other academics and other professionals schooled in child psychology. Positive Reinforcement for Kids explains the technical details in down to earth manner for parents and caregivers alike.Positive Reinforcement for Kids breaks down this barrier and explains what positive reinforcement is in great detail without being too technical or boring. It covers positive reinforcement, negative reinforcement, positive punishment, negative punishment and teaches you the difference between the four. Once you know you will be shocked to see how many "professionals" get them wrong. Once you thoroughly understand the difference between reinforcement and punishment, more complex subjects and techniques will be covered including extinction, satiation, shaping and chaining as well as schedules of reinforcement and how to use them to your advantage. Positive Reinforcement for Kids thoroughly covers reinforcers and helps you discover what will work best for your unique situation. Also covered are token economies and other techniques. You will learn how to use positive reinforcement with one child or a whole group of children, in various settings for children as young as toddlers and as old as teenagers. It will show you how to measure the effectiveness your program using objective metrics so you can make changes based on your child and your situation to ensure your success. Finally instead of hiding from criticisms of positive reinforcement it addresses them head on and helps you avoid some of the valid pitfalls some critics have pointed out. ABSTRACT: The use of response cost and reinforcement-based interventions (e.g., token economies, group level systems, grading with points) is common in academic settings. Despite the ubiquity of these interventions, few studies have evaluated child preference for response cost versus reinforcement. Furthermore, the studies have yielded mixed results. The present study involved assessments of child preference for reinforcement or response cost in a series of 4 experiments. In each experiment, typically developing children were repeatedly presented with a computerized matching to sample task under both reinforcement and response cost conditions. Following exposure to each condition, children were asked to select their subsequent working conditions. Child selections were the primary dependent measure of choice. This preparation was repeated using different stimuli, to assess if preference results could be reproduced. Additionally, this preparation was repeated using math problems appropriate for the child's grade level. Results of Experiments I and II showed that preference was influenced by variables other than the contingencies presented. In Experiment III, 8 of the 12 participants showed a preference for reinforcement. However, preliminary results of Experiment IV indicated that numbering the trials during the session may attenuate any overall preference for reinforcement. These data have implications for assessing client treatment preference and the acceptability of response cost procedures. The contingent relationship between actions and their consequences lies at the heart of Skinner’s experimental analysis of behavior. Particular patterns of behavior emerge depending upon the contingencies established. Ferster and Skinner examined the effects of different schedules of reinforcement on behavior. An extraordinary work, Schedules of Reinforcement represents over 70,000 hours of research primarily with pigeons, though the principles have now been experimentally verified with many species including human beings. At first glance, the book appears to be an atlas of schedules. And so it is, the most exhaustive in existence. But it is also a reminder of the power of describing and explaining behavior through an analysis of measurable and manipulative behavior-environment relations without appealing to physiological mechanisms in the brain. As en exemplar and source for the further study of behavioral phenomena, the book illustrates the scientific philosophy that Skinner and Ferster adopted: that a science is best built from the ground up, from a firm foundation of facts that can eventually be summarized as scientific laws. The stability of underground and surface geotechnical structures during and after excavation is of great concern as any kind of instability may result in damage to the environment as well as time-consuming high cost repair work. The forms of instability, their mechanisms and the conditions associated with them must be understood so that correct stabilisation of the structure through rock reinforcement and/or rock support can be undertaken. Rock Reinforcement and Rock Support elucidates the reinforcement functions of rock bolts/rock anchors and support systems consisting of shotcrete, steel ribs and concrete liners and evaluates their reinforcement and supporting effects both qualitatively and quantitatively. It draws on the research activities and practices carried out by the author for more than three decades and has culminated in a most extensive up-to-date and a complete treatise on rock reinforcement and rock support. One of the major neuropsychological models of personality, developed by world-renowned psychologist Professor Jeffrey Gray, is based upon individual differences in reactions to punishing and rewarding stimuli. This biological theory of personality - now widely known as 'Reinforcement Sensitivity Theory' (RST) - has had a major influence on motivation, emotion and psychopathology research. In 2000, RST was substantially revised by Jeffrey Gray, together with Neil McNaughton, and this revised theory proposed three principal motivation/emotion systems: the 'Fight-Flight-Freeze System' (FFFS), the 'Behavioural Approach System' (BAS) and the 'Behavioural Inhibition System' (BIS). This is the first book to summarise the Reinforcement Sensitivity Theory of personality and bring together leading researchers in the field. It summarizes all of the pre-2000 RST research findings, explains and elaborates the implications of the 2000 theory for personality psychology and lays out the future research agenda for RST. Maximize employee performance with this updated edition of the classic bestseller In Bringing Out the Best in People: How to Apply the Astonishing Power of Positive Reinforcement, renowned thought leader and internationally recognized workplace expert Aubrey Daniels takes a look at today’s rapidly changing work environment, providing a timely update to his seminal book on performance management. As one of the foremost speakers and writers in the human performance field, for nearly 40 years Daniels has worked with organizations to apply scientifically-based behavioral tools and principles to effectively address workplace issues—particularly as they relate to management, leadership, culture, innovation, safety, engagement, and collaboration. Bringing Out the Best in People: How to Apply the Astonishing Power of Positive Reinforcement, presents Daniels’ proven strategies that have been successfully adopted by hundreds of organizations worldwide—ranging from start-ups to Fortune 100 companies—and delivers step-by-step instruction and positive practices to help you implement and sustain positive change. With a behavioral foundation and new chapters on employee engagement and the impact of the exponential increase in technology, this latest edition features all new examples, updated approaches to effective recognition and rewards systems, tips for stimulating and fostering innovation and creativity, and productive ways to embrace and empower the multi-generational workforce, including Millennials and future generations. This timely update tackles the changes in the contemporary work environment, while providing step-by-step instructions and proven practices that have been adopted by Daniels’ global clients, from startups to Fortune 100 companies. Learn how to: • Create effective recognition and rewards systems that are positively reinforcing to employees • Stimulate innovation and creativity in exciting new ways • Understand fluency as an efficient way to reduce training costs and increase training effectiveness for all employees • Engage employees in ways that lead to improved performance and a stronger culture • Motivate and empower the multi-generational workforce • Understand and shape how technology is affecting employee behavior—for better and worse Developments in the Formulation and Reinforcement of Concrete, Second Edition, presents the latest developments on topics covered in the first edition. In addition, it includes new chapters on supplementary cementitious materials, mass concrete, the sustainably of concrete,

service life prediction, limestone cements, the corrosion of steel in concrete, alkali-aggregate reactions, and concrete as a multiscale material. The book's chapters introduce the reader to some of the most important issues facing today's concrete industry. With its distinguished editor and international team of contributors, users will find this to be a must-have reference for civil and structural engineers. Summarizes a wealth of recent research on structural concrete, including material microstructure, concrete types, and variation and construction techniques Emphasizes concrete mixture design and applications in civil and structural engineering Reviews modern concrete materials and novel construction systems, such as the precast industry and structures requiring high-performance concrete The world would be a better place if parents, teachers, and all people were more aware of how their actions reinforce, punish, or non-reinforce the admirable or unwanted behavior of others. This book provides vignettes from everyday interactions to practice creating good hunches to answer a fundamental question: how do the consequences of a behavior affect the chance that the behavior will be repeated? Reinforced concrete is one of the most widely used modern materials of construction. It is comparatively cheap, readily available, and suitable for a variety of building and construction applications. Galvanized Steel Reinforcement in Concrete provides a detailed resource covering all aspects of this important material. Both servicability and durability aspects are well covered, with all the information needed maximise the life of buildings constructed from it. Containing an up-to-date and comprehensive collection of technical information and data from world renound authors, it will be a valuable source of reference for academics, researchers, students and professionals alike. Provides information vital to prolong the life of buildings constructed from this versatile material Brings together a disparate body of knowledge from many parts of the world into a concise and authoritative text Containing an up-to-date and comprehensive collection of technical information Earth Reinforcement and Soil Structures provides a coverage of the basic aspects of reinforced soil. The book is comprised of 12 chapters that cover the theoretical elements up to the practical applications. The first two chapters provide the introduction and historical review of the subject of reinforced soil. The third chapter presents a catalogue of some of the application areas for the use of earth reinforcement, while the fourth chapter covers the theoretical concepts. The next six chapters deal with the practical aspects of earth reinforcements, such as design, construction, costs, and durability. The remaining two chapters provide some worked examples and discuss the developments in earth reinforcement, respectively. The text will be of great use to undergraduate students of civil engineering and other related fields. First Published in 1986. Routledge is an imprint of Taylor & Francis, an informa company. First published in 1986. Routledge is an imprint of Taylor & Francis, an informa company. This book comprehensively introduces the major psychological principles of behavior: "operant conditioning, Pavlovian conditioning, social learning theory, and cognitive behaviorism." It closely links these basic abstract principles to relevant, concrete examples from everyday life— showing readers how each behavior principle operates in easily understood settings, "and" how to apply them in complex natural situations. Chapter topics cover behavior modification; primary and secondary reinforcers and punishers; differential reinforcement and shaping; modeling and observational learning; prompts and fading; rules; schedules; positive and negative control; and thinking, the self, and self-control. For individuals making the transition from adolescence into the various phases of adulthood— seeking a better understanding of their life, and ways to make it more positive. B. F. Skinner titled this book, Contingencies of Reinforcement, after the heart of his science of behavior. Contingencies relate classes of actions to postcedent events and to the contexts in which those action-postcedent relations occur. The basic processes seem straightforward, but many people do not know or understand the underlying theory. Skinner believed that ‘a theory is essential to the scientific understanding of behavior as a subject matter”. This book presents some of Skinner’s most sophisticated statements about theoretical issues. To his original articles, he added notes to clarify and expand subtle points. The book thus provides an overview of Skinner’s thinking about theory and the philosophy underpinning the science he began. Reinforcement learning is a self-evolving type of machine learning that takes us closer to achieving true artificial intelligence. This easy-to-follow guide explains everything from scratch using rich examples written in Python. When combined with reinforcing agents, plastics can be used for a number of high-temperature applications. Plastics Reinforcement and Industrial Applications provides a detailed discussion on plastics, polymers, and reinforcing agents (including organic and natural biomaterials). Focused specifically on improving the mechanical, thermal, and electrical stability of plastics by combining them with reinforcing agents, this book explains the background of reinforced plastics and describes how they work. The book examines reinforcing agents that include glass fibers, carbon fibers, carbon nanotubes, graphite, talc, and minerals, and commonly used plastics such as polyamides, polyesters, polyethylene terephthalate, and epoxy resins. It also introduces newer plastics such as polyimides, polysulfones, polyethersulfone, polyphenylene sulfide, and polyether ether ketones. It highlights recent developments in the field that include the use of nanocomposites for manufacturing sports equipment, and other applications of nanoparticles in polymer reinforcement. In addition, use of this material can aid in the production of plastics utilized in the construction of aircraft and light weight automobiles. The author covers a wide range of applications that may be applied in general engineering, automotive, aerospace, building materials, electronics and microelectronics, power sources, medical, and bioengineering. He also includes material on natural fibers used for reinforcement and green chemistry applications. Suitable for use in the metals and plastics industries, Plastics Reinforcement and Industrial Applications is an ideal resource for polymer and material scientists, and chemical and mechanical engineers. In behavior modification there are only four possible consequences available to those who want to shape or modify the behavior of others - positive reinforcement, punishment, negative reinforcement and time-out. Everyone THINKS that he understands positive reinforcement and punishment. But everyone KNOWS that they do not truly understand the definition of negative reinforcement and time-out, nor when each should best be used. Hence, this book focuses on these last two consequences.Disturbingly, a simply seven-item Quiz Negative Reinforcement Quiz reveals that not 1 in 1000 takers can respond correctly! Most people incorrectly view negative reinforcement as simply a synonym for punishment. Yet, negative reinforcement is the removal of an aversive; punishment is the supplying of an aversive. Further, most people incorrectly view time-out as a form of punishment. They, too, are wrong. Punishment is the supplying of an aversive; time-out is the removal of a reward.This book will help readers better understand both negative reinforcement and time-out and, thus, be better prepared to supply each when circumstances demand it. Such an understanding will enable readers, then, to use all four, not just two, of the behavior modification consequences.All of this is accomplished in a relatively short book with many down-to-earth, as well as humorous, examples such as the Nellie Barnes' story, the mistake by Bill Murray in Ghostbusters, and the yarn about the Burner without a brain. Reinforcement learning is the learning of a mapping from situations to actions so as to maximize a scalar reward or reinforcement signal. The learner is not told which action to take, as in most forms of machine learning, but instead must discover which actions yield the highest reward by trying them. In the most interesting and challenging cases, actions may affect not only the immediate reward, but also the next situation, and through that all subsequent rewards. These two characteristics -- trial-and-error search and delayed reward -- are the most important distinguishing features of reinforcement learning. Reinforcement learning is both a new and a very old topic in AI. The term appears to have been coined by Minsk (1961), and independently in control theory by Walz and Fu (1965). The earliest machine learning research now viewed as directly relevant was Samuel's (1959) checker player, which used temporal-difference learning to manage delayed reward much as it is used today. Of course learning and reinforcement have been studied in psychology for almost a century, and that work has had a very strong impact on the AI/engineering work. One could in fact consider all of reinforcement learning to be simply the reverse engineering of certain psychological learning processes (e.g. operant conditioning and secondary reinforcement). Reinforcement Learning is an edited volume of original research, comprising seven invited contributions by leading researchers. Discusses the underlying principles of behaviorial modification and explains how to apply the methodology of positive reinforcement to areas ranging from memory improvement to breaking addictive habits This highly successful textbook has been comprehensively revised for two main reasons: to bring the book up-to-date and make it compatible with BS8110 1985; and to

take into account the increasing use made of microcomputers in civil engineering. An important new chapter on microcomputer applications has been added. This book contains auxiliary calculation tools to facilitate the safety assessment of reinforced concrete sections. Essential parameters in the design to the ultimate limit state of resistance such as the percentage of reinforcement and the position of the neutral axis in concrete cross-sections, as well as the control of the maximum stresses in service limit states are provided by these tools. A set of tables, charts and diagrams used to design cross-sections of reinforced and prestressed concrete structures are supplied. The most current beams and columns cross-sections namely, rectangular, circular and T-sections are considered. These tools have been prepared in line with the provisions of the new European regulations, with particular reference to Eurocode 2 – Design of Concrete Structures. The book stands as an ideal learning resource for students of structural design and analysis courses in civil engineering, building construction and architecture, as well as a valuable reference for concrete structural design professionals in practice.

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