

FUNDAMENTALS OF INVESTING 10TH EDITION SOLUTIONS MANUAL Reference

fundamentals of investing 10th edition solutions manual serves as an essential resource for students, educators, and professionals seeking a comprehensive understanding of investment principles and practices. As one of the most widely adopted textbooks in finance education, "Fundamentals of Investing" offers a solid foundation in the core concepts of investing, from basic asset classes to advanced portfolio strategies. The solutions manual that accompanies this textbook provides detailed, step-by-step answers to end-of-chapter problems, enabling learners to deepen their understanding and develop practical skills. In this article, we will explore the key aspects of the "Fundamentals of Investing 10th Edition Solutions Manual," its importance, how to utilize it effectively, and the benefits it offers to learners and educators alike.

Understanding the Fundamentals of Investing 10th Edition Solutions Manual

What Is the Solutions Manual?

The solutions manual is a supplementary resource designed to accompany the main textbook. It contains solutions to all or most of the end-of-chapter questions, exercises, and case studies presented in the "Fundamentals of Investing 10th Edition." Its primary purpose is to provide clear, accurate, and comprehensive explanations for each problem, helping students verify their answers and grasp complex concepts more effectively.

Features of the Solutions Manual

The solutions manual typically includes:

- Detailed step-by-step solutions to end-of-chapter questions
- Clarifications on key concepts and calculations
- Additional explanations to reinforce learning
- Illustrative examples to demonstrate practical application
- Guidance on approaching similar problems independently

Who Can Benefit from the Solutions Manual?

The solutions manual is invaluable for:

- Students aiming to check their work and deepen understanding
- Instructors seeking to prepare lessons and verify student submissions
- Self-learners studying investment fundamentals independently
- Financial professionals refreshing core concepts or preparing for certifications

Key Topics Covered in "Fundamentals of Investing 10th Edition"

Introduction to Investment Principles

Understanding the basics of investing, including:

- Types of investments
- Risk and return trade-offs
- The importance of diversification
- The role of financial markets

Asset Classes and Investment Vehicles

Coverage of various assets such as:

- Stocks and equities
- Bonds and fixed-income securities
- Mutual funds and ETFs
- Real estate and alternative investments

Fundamental and Technical Analysis

Methods for evaluating securities, including:

- Financial statement analysis
- Valuation techniques
- Charts and technical indicators

Portfolio Construction and Management

Strategies for building and managing investment portfolios, focusing on:

- Asset allocation
- Risk management
- Performance evaluation

Behavioral Finance and Market Efficiency

Insights into investor psychology and market dynamics:

- Behavioral biases
- Efficient Market Hypothesis
- Market anomalies

How to Effectively Use the Solutions Manual

Complementing Textbook Study

To maximize learning, students should:

- Attempt problems on their own first
- Review solutions to identify errors and misconceptions
- Compare their answers with the solutions manual
- Focus on understanding the reasoning behind each solution

Enhancing Problem-Solving Skills

The solutions manual helps learners:

- Develop systematic approaches to complex problems
- Learn various methods for financial calculations
- Build confidence in tackling real-world investment scenarios

Supporting Teaching and Instruction

Educators can use the solutions manual to:

- Prepare lecture examples
- Create quizzes and homework assignments with solutions

- Clarify difficult concepts during lessons

Benefits of Using the Solutions Manual

Deepens Conceptual Understanding

By examining detailed solutions, learners gain insight into the underlying principles of investment analysis, enhancing their comprehension beyond superficial answers.

Improves Problem-Solving Efficiency

Practicing with solutions accelerates learning by illustrating effective approaches, reducing the time needed to solve future problems independently.

Boosts Confidence and Motivation

Seeing correct solutions and understanding their rationale encourages persistence and reduces anxiety around complex topics.

Prepares for Real-World Applications

The step-by-step explanations mirror industry practices, helping students connect textbook theory with practical investment decision-making.

Where to Find the "Fundamentals of Investing 10th Edition Solutions Manual"

Official Publishers and Distributors

The most reliable source for the solutions manual is through the publisher or authorized educational resource providers. Access might be:

- Included with textbook purchase (print or digital)
- Available as a supplementary purchase online
- Provided through institutional access for registered students and instructors

Online Educational Platforms

Some platforms offer access to solutions manuals, either freely or via subscription, but caution is advised to ensure legitimacy and avoid unauthorized copies.

Academic Libraries and Bookstores

Educational institutions may provide access through library resources or course reserves.

Conclusion

The **fundamentals of investing 10th edition solutions manual** is a vital companion for anyone looking to master investment principles and develop practical skills in finance. It enhances learning by providing clear, detailed solutions to complex problems, reinforcing theoretical knowledge with practical application. Whether used by students for self-study, instructors for teaching, or professionals for refresher training, this manual helps bridge the gap between theory and practice. To maximize its benefits, users should approach it as a learning tool rather than a shortcut, engaging actively with each solution to deepen understanding and build confidence in investment analysis. As the world of finance continues to evolve, a solid grasp of fundamental investing concepts supported by resources like the solutions manual remains an indispensable asset for success in the field.

Fundamentals of Investing 10th Edition Solutions Manual: An In-Depth Review and Analysis

Investing remains one of the most critical skills for individuals seeking financial independence and wealth accumulation. As the landscape evolves with technological innovation, international markets, and complex financial instruments, foundational knowledge becomes indispensable. The Fundamentals of Investing 10th Edition Solutions Manual has garnered considerable attention among students, educators, and self-learners aiming to grasp core investment principles. This review provides a comprehensive examination of its content, pedagogical value, and practical utility, offering insights into why it remains a vital resource in financial education.

Overview of Fundamentals of Investing 10th Edition

The Fundamentals of Investing 10th Edition by renowned authors (typically Zvi Bodie, Alex Kane, and Alan J. Marcus) serves as a comprehensive textbook designed to introduce readers to the essential concepts of investing and personal finance. Its structured approach aims to demystify complex topics, making them accessible for beginners while also offering depth for more advanced learners.

The accompanying Solutions Manual complements the textbook by providing detailed, step-by-step solutions to end-of-chapter exercises, case studies, and problem sets. This pairing not only facilitates self-study but also enhances classroom instruction by offering clear guidance on problem-solving techniques.

Contents and Structure of the Solutions Manual

The Solutions Manual is meticulously organized to align with the textbook's chapters, ensuring coherence and ease of use. Its core features include:

- Detailed Step-by-Step Solutions: Each problem is broken down logically, illustrating the reasoning process behind each answer.
- Explanatory Notes: Clarifications accompany solutions to highlight key concepts, assumptions, and financial principles.
- Illustrative Calculations: Mathematical computations, such as present value, future value, risk assessments, and portfolio diversification calculations, are demonstrated thoroughly.
- Additional Practice Problems: The manual often includes supplementary questions not found in the textbook, reinforcing understanding.

This structure allows learners to not only verify their answers but also understand the methodology, fostering deeper comprehension.

Deep Dive into Key Topics Covered in the Solutions Manual

The manual addresses a broad spectrum of investment topics. Here, we explore some of the most critical areas covered, emphasizing their pedagogical and practical importance.

1. Time Value of Money and Investment Valuation

Understanding how money grows over time is fundamental in investing. The manual provides solutions to problems involving:

- Present and future value calculations
- Annuities and perpetuities
- Discounted cash flow analysis

These concepts underpin valuation models used in stock, bond, and real estate investing.

2. Risk and Return Analysis

A thorough grasp of risk is essential for making informed investment decisions. The manual covers:

- Calculations of expected return and variance
- Portfolio risk assessment
- The Capital Asset Pricing Model (CAPM)

- Beta coefficient computations

These tools help investors balance risk and reward effectively.

3. Asset Classes and Diversification

The manual discusses the characteristics of various asset classes, including stocks, bonds, real estate, and alternative investments. It walks through diversification strategies to mitigate unsystematic risk, emphasizing the importance of asset allocation.

4. Security Markets and Trading Mechanisms

Understanding how securities are traded and priced is vital. Solutions to problems related to:

- Market orders and limit orders
- Bid-ask spreads
- Market efficiency theories

are provided to clarify trading dynamics.

5. Portfolio Management and Performance Evaluation

The manual guides learners through constructing optimal portfolios, assessing performance using metrics like the Sharpe ratio, and understanding benchmarks.

Pedagogical Benefits of the Solutions Manual

The Fundamentals of Investing 10th Edition Solutions Manual offers numerous advantages for different user groups:

- Self-Directed Learners: The detailed solutions foster independent learning, allowing users to identify and correct misunderstandings.
- Instructors: It serves as a valuable resource for designing assignments, preparing lectures, and developing supplementary materials.
- Students: By providing clear reasoning, it helps demystify complex problems, boosting confidence and competence.

Furthermore, the manual encourages active engagement, prompting users to critically analyze each problem rather than passively memorizing formulas.

Practical Utility and Limitations

While the manual is an excellent resource, it is important to consider both its utility and limitations.

Utility

- Enhances Conceptual Understanding: Step-by-step solutions clarify not just the what, but the why behind each answer.
- Supports Exam and Assignment Preparation: It equips students with problem-solving strategies aligned with textbook content.
- Bridges Theory and Practice: Real-world applications, such as valuation and portfolio management, are illustrated through practical examples.

Limitations

- Potential Over-Reliance: Students may become dependent on solutions rather than developing independent problem-solving skills.
- Lack of Contextual Flexibility: The manual's solutions are tailored to textbook problems; adapting approaches to real-world scenarios may require additional resources.
- Static Content: As markets evolve, some examples may become outdated, necessitating supplementary current data.

How to Maximize the Benefits of the Solutions Manual

To fully leverage the Solutions Manual, users should adopt effective strategies:

- Attempt Problems Independently First: Use the manual as a check after attempting problems unaided.
- Analyze the Solution Process: Pay attention to the reasoning steps, not just the final answer.
- Supplement with Real-World Data: Cross-reference solutions with current market information to understand practical implications.
- Engage in Discussions: Form study groups to discuss solutions and conceptual questions.

Conclusion: Is the Solutions Manual a Worthwhile Investment?

In the domain of investment education, comprehension and application are paramount. The Fundamentals of Investing 10th Edition Solutions Manual stands out as a comprehensive, practical resource that complements the textbook's theoretical foundation. Its detailed solutions facilitate

active learning, reinforce critical concepts, and prepare readers for real-world investment challenges.

While it should not replace active problem-solving or supplementary study, the manual undoubtedly enhances the learning experience. For students, educators, and self-learners committed to mastering investment fundamentals, investing in this solutions manual is a decision aligned with educational excellence and practical readiness.

Final Verdict: The Fundamentals of Investing 10th Edition Solutions Manual is an invaluable resource that promotes understanding, confidence, and proficiency in investment principles, making it a recommended supplement for anyone serious about developing a solid investment acumen.

Question Answer What topics are covered in the 'Fundamentals of Investing 10th Edition Solutions Manual'? The solutions manual covers key topics such as investment fundamentals, portfolio theory, risk and return analysis, asset valuation, and financial markets, aligning with the concepts presented in the textbook. How can the 'Fundamentals of Investing 10th Edition Solutions Manual' assist students in their coursework? It provides detailed solutions to textbook problems, helping students understand complex concepts, improve problem-solving skills, and prepare effectively for exams. Is the 'Fundamentals of Investing 10th Edition Solutions Manual' suitable for self-study? Yes, it is a valuable resource for self-study, as it offers step-by-step solutions that clarify difficult topics and reinforce learning outside the classroom. Where can I access the 'Fundamentals of Investing 10th Edition Solutions Manual'? The solutions manual is typically available through educational resource websites, university libraries, or through purchase from authorized textbook publishers or online platforms. Are there updated solutions or editions for the latest version of 'Fundamentals of Investing'? Yes, publishers often release updated solutions manuals with new editions to reflect changes in the curriculum and recent developments in investing concepts. Always ensure you have the correct edition for your course.

Related keywords: investing principles, finance textbook solutions, investment strategies, financial analysis, portfolio management, investment textbook answers, financial mathematics, investment concepts, solutions manual, 10th edition finance

TOP NOTCH FUNDAMENTALS

Top Notch Fundamentals: The Foundation of Success in Any Field

In the ever-evolving landscape of today's competitive world, mastering the top notch fundamentals is essential for achieving sustained success. Whether you're an aspiring professional, an

entrepreneur, or someone looking to enhance personal development, understanding and applying core principles can significantly elevate your performance. Fundamentals serve as the building blocks upon which advanced skills and innovative ideas are constructed. Without a solid grasp of these basics, even the most talented individuals can struggle to reach their full potential.

This article explores the importance of top notch fundamentals, how to identify them across various domains, and practical strategies for mastering these essential principles to unlock your highest capabilities.

Understanding the Significance of Top Notch Fundamentals

Why Are Fundamentals Critical for Success?

Fundamentals are the essential elements or core skills that form the foundation of proficiency in any discipline. They are often simple in concept but profound in their impact when executed consistently and correctly. The significance of these basics includes:

- Building a Strong Foundation: Just as a sturdy building relies on a solid foundation, mastery of fundamentals ensures stability and durability in your skills.
- Enhancing Efficiency: When fundamentals are well-understood, tasks become more straightforward, reducing errors and increasing productivity.
- Facilitating Advanced Learning: Complex concepts and advanced techniques are easier to grasp once the basics are well established.
- Boosting Confidence: Proficiency in fundamental skills fosters confidence, enabling individuals to take on more challenging tasks.
- Creating Consistency: Fundamentals provide a reliable framework that promotes consistent performance over time.

The Role of Fundamentals in Different Fields

While the core idea of fundamentals remains consistent across disciplines, their specific applications vary:

- In Business and Entrepreneurship: Fundamentals include strategic planning, financial literacy, marketing basics, and leadership principles.
- In Technology and Programming: Core skills involve understanding algorithms, data structures, coding standards, and debugging techniques.
- In Sports: Fundamentals encompass proper techniques, physical conditioning, and mental resilience.

- In Personal Development: Key areas include time management, effective communication, emotional intelligence, and goal setting.

Recognizing these fundamental principles in your specific domain is crucial for long-term success.

Identifying Top Notch Fundamentals in Your Field

Steps to Pinpoint Essential Fundamentals

- Research Industry Standards: Review reputable sources, industry leaders, and educational resources to understand what core skills are emphasized.
- Seek Expert Guidance: Mentors, coaches, or experienced practitioners can provide insights into the fundamental skills necessary for mastery.
- Analyze Successful Individuals: Observe the habits and skills of top performers in your field to identify common foundational traits.
- Practice Self-Assessment: Regularly evaluate your skills to identify gaps or weaknesses in your fundamentals.
- Prioritize Core Skills: Focus on mastering the fundamental skills before moving on to advanced concepts.

Examples of Fundamental Skills Across Domains

| Domain | Top Notch Fundamentals |

|-----|-----|

| Business & Entrepreneurship | Strategic planning, financial literacy, networking skills |

| Technology & Programming | Coding syntax, problem-solving, version control |

| Sports | Technique, physical conditioning, mental toughness |

| Personal Development | Time management, communication, resilience |

By systematically identifying these core elements, you set the stage for building a robust skill set.

Strategies for Mastering Top Notch Fundamentals

1. Focused and Deliberate Practice

Deliberate practice involves intentional efforts to improve specific skills through targeted exercises. Instead of mindlessly repeating tasks, focus on:

- Identifying areas of weakness
- Setting clear, measurable goals
- Seeking feedback and making adjustments
- Practicing consistently over time

2. Break Down Complex Skills

Decompose advanced skills into smaller, manageable components. Master each component separately before integrating them into a cohesive whole.

3. Consistency Over Intensity

Regular, focused practice yields better results than sporadic efforts. Make a habit of dedicating time daily or weekly to honing your fundamentals.

4. Leverage Resources and Learning Materials

Utilize books, courses, tutorials, and workshops that emphasize fundamental principles. Continuous learning keeps your skills sharp and up-to-date.

5. Seek Feedback and Mentorship

Constructive criticism from mentors or peers helps identify blind spots and accelerates mastery. Be open to feedback and willing to adapt.

6. Reflect and Adjust

Regular reflection on your progress allows you to recognize achievements and recalibrate your learning strategies as needed.

Maintaining and Evolving Your Fundamentals

Continuous Improvement for Long-Term Success

Mastery of fundamentals is not a one-time achievement but an ongoing process. As your skills develop, revisit foundational principles regularly to:

- Reinforce your knowledge
- Adapt to new challenges
- Incorporate innovations and best practices

Stay Curious and Open to Learning

Never assume your fundamentals are perfect. Embrace a growth mindset, remain curious, and seek opportunities to deepen your understanding.

Adapt Fundamentals to Changing Contexts

Fields evolve, and so should your core skills. For instance, technological advancements may require updating your coding standards or learning new tools.

Conclusion: The Power of Top Notch Fundamentals

Achieving excellence in any field hinges on a solid grasp of top notch fundamentals. These core principles act as the backbone of skill development, guiding your journey from novice to expert. By systematically identifying, practicing, and refining your foundational skills, you set yourself up for sustained success and continuous growth.

Remember, greatness is built on the basics. Master your fundamentals, stay committed to improvement, and watch as your capabilities reach new heights. Whether in business, technology, sports, or personal development, investing in top notch fundamentals is the most strategic move you can make for a future of achievement and fulfillment.

Top Notch Fundamentals: The Cornerstone of Mastery in Any Discipline

In the pursuit of excellence, whether in technology, arts, sports, or sciences, the importance of establishing a solid foundation cannot be overstated. **Top notch fundamentals** serve as the bedrock upon which advanced skills are built, enabling individuals and organizations to innovate, adapt, and excel. In an era characterized by rapid change and fierce competition, understanding and mastering these core principles is more crucial than ever. This article explores the significance of fundamental skills, their key components across various fields, and how a deep appreciation of these basics can lead to sustained success.

The Significance of Fundamentals in Skill Development

Why Fundamentals Matter

Fundamentals are the essential building blocks that underpin complex systems and skills. They are

often simple in concept but profound in their impact. Mastering these basics allows practitioners to:

- Build Confidence: A strong grasp of fundamentals reduces errors and increases efficiency.
- Ensure Flexibility: With a solid foundation, adapting to new challenges becomes easier.
- Facilitate Innovation: Understanding core principles enables creative problem-solving and innovation.
- Maintain Consistency: Consistent performance stems from a reliable grasp of basics.

In fields like engineering, programming, sports, music, and business, neglecting fundamentals can lead to errors, inefficiencies, or even failure. Conversely, investing time in mastering these basics accelerates progression toward mastery.

The Role of Fundamentals in Long-term Success

While advanced techniques and cutting-edge tools are appealing, they are often built upon a bedrock of core skills. For example, a software developer might master algorithms and data structures before exploring machine learning or artificial intelligence. Similarly, a musician must understand scales and rhythm before improvising complex solos. This layered approach underscores why fundamentals are not just preliminary steps but ongoing pillars of expertise.

Core Components of Top Notch Fundamentals

- Technical Skills

Technical skills are specific abilities required to perform tasks within a particular domain. They vary widely across disciplines but share common characteristics: clarity, precision, and applicability.

Examples include:

- Mathematics: Algebra, calculus, statistics
- Programming: Syntax, data structures, algorithms
- Engineering: Circuit design, material properties
- Design: Composition, color theory
- Business: Financial literacy, strategic planning

Deep Dive: The mastery of technical skills often involves deliberate practice, continuous learning, and real-world application. For instance, a programmer might spend months refining their understanding of recursive algorithms, which then become second nature in complex

problem-solving.

- Conceptual Understanding

Beyond rote skills, a thorough grasp of fundamental concepts enables practitioners to see the 'why' behind the 'how.' This understanding facilitates troubleshooting, innovation, and cross-disciplinary thinking.

Key aspects include:

- Principles and Theories: Understanding the underlying laws or theories that govern a field.
- Models and Frameworks: Visual or conceptual representations that simplify complex ideas.
- Historical Context: Knowledge of how concepts evolved provides perspective and depth.

Example: An architect who comprehends the principles of structural load distribution can design buildings that are both innovative and safe. Similarly, a data analyst who understands statistical significance can interpret data correctly, avoiding misleading conclusions.

- Problem-Solving Skills

Fundamentals include the ability to analyze problems, break them down into manageable parts, and develop effective solutions.

Components:

- Analytical Thinking: Ability to interpret data, identify patterns.
- Logical Reasoning: Applying structured thought processes.
- Creativity: Thinking outside the box within the bounds of fundamental principles.
- Decision-Making: Choosing optimal solutions based on sound understanding.

Application: In software development, debugging efficiently requires a systematic approach rooted in understanding common failure modes and logical troubleshooting steps.

- Communication and Documentation

Clear communication ensures that fundamental concepts are shared and understood within and

across teams.

Importance:

- Knowledge Transfer: Facilitates onboarding and mentoring.
- Collaboration: Ensures everyone is aligned on core principles.
- Documentation: Creates a record for future reference and learning.

Example: A project manager documenting best practices and fundamental procedures ensures continuity and quality control.

- Discipline and Mindset

Developing top-notch fundamentals also involves cultivating a disciplined approach and growth-oriented mindset.

Aspects include:

- Consistency: Regular practice and review.
- Curiosity: Willingness to learn and ask questions.
- Resilience: Persisting through challenges.
- Humility: Recognizing the importance of fundamentals regardless of expertise level.

Impact: A disciplined learner revisits core concepts periodically, reinforcing their understanding and preventing skill atrophy.

Implementing Top Notch Fundamentals Across Disciplines

In Technology and Programming

- Focus on core languages: Master fundamental programming languages like Python, Java, or C++.
- Understand data structures and algorithms: These are essential for efficient coding.
- Adopt best practices: Version control, testing, documentation.
- Prioritize problem-solving skills: Practice coding challenges regularly.

In Sports and Athletics

- Master basic techniques: Proper stance, footwork, and fundamental movements.
- Build strength and endurance: Fundamental physical conditioning.
- Learn game rules and strategies: Solid understanding of the sport's core principles.
- Focus on consistency: Regular drills and practice.

In Arts and Creativity

- Learn fundamental techniques: Drawing, shading, color mixing.
- Understand art history: Contextualize your work within broader movements.
- Practice regularly: Build muscle memory and intuition.
- Develop a personal style: Grounded in fundamental principles.

In Business and Management

- Grasp financial fundamentals: Cash flow, balance sheets, profit margins.
- Understand marketing basics: Target audience, value proposition.
- Master leadership principles: Motivation, delegation, communication.
- Cultivate strategic thinking: Long-term planning rooted in fundamental analysis.

Cultivating a Culture of Fundamentals

Continuous Learning and Practice

Top performers never outgrow the need for fundamentals. Building a culture that values ongoing learning involves:

- Structured training programs
- Mentorship and coaching
- Regular review of core principles
- Encouragement of curiosity and questions

Emphasizing Quality Over Speed

Fast results can tempt practitioners to skip fundamentals. Instead, emphasizing quality and depth ensures a durable skill set.

Learning from Failures and Feedback

Mistakes are valuable learning opportunities. Analyzing errors in the context of fundamental principles leads to deeper understanding and growth.

The Long-Term Payoff

Investing in top notch fundamentals yields dividends over time. It enhances problem-solving capabilities, fosters innovation, and increases resilience in facing unforeseen challenges. Whether you're a student, a professional, or an organization, anchoring your pursuits in solid basics creates a pathway toward mastery and sustained success.

Conclusion

In a world that continually evolves with new tools, techniques, and trends, the importance of **top notch fundamentals** remains unwavering. They are the silent architects of excellence, shaping skills that stand the test of time. By dedicating time and effort to mastering core concepts, technical skills, problem-solving, communication, and mindset, individuals and organizations can unlock their full potential. Remember, mastery begins with a strong foundation—build yours with care, consistency, and curiosity. The future belongs to those who recognize that excellence is rooted in the fundamentals.

Question What are the core principles of top notch fundamentals in any skill? The core principles include mastering foundational knowledge, practicing consistently, seeking continuous feedback, and maintaining a growth mindset to improve steadily over time. How can focusing on fundamentals improve overall performance? Focusing on fundamentals ensures a solid base, reduces errors, and allows for more advanced skills to be built effectively, leading to greater consistency and confidence in performance. Why is consistency important when developing top notch fundamentals? Consistency reinforces learning, helps build muscle memory, and ensures skills become second nature, which is essential for maintaining high standards in any discipline. What are common mistakes to avoid when mastering fundamentals? Common mistakes include rushing through basics, neglecting deliberate practice, ignoring feedback, and overlooking the importance of quality over quantity in training. How can one stay motivated while focusing on fundamental skills? Setting clear, achievable goals, tracking progress, celebrating small wins, and understanding the long-term benefits of mastering fundamentals can help maintain motivation and commitment.

Related keywords: core skills, foundational knowledge, essential principles, basic concepts, fundamental techniques, primary skills, core competencies, essential basics, foundational practices, key concepts

Read the full article online: [TOP NOTCH FUNDAMENTALS](#)