

Equity Investments

CFA一级知识框架图



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Market Organization And Structure

Introduction of Financial Market

Concepts

3 Main Functions of the Financial Market

- •Fulfill different entities' requirements: Information-motivated traders
- •Determine interest rates: Equilibrium interest rate
- Allocate capital to its most efficient uses

Well functioned financial market

- Complete markets
- Operational efficiency
- Informational efficiency
- Allocational efficiency

Market Regulation

Intermediaries of Financial Market

- Brokers, Dealers and Exchange
- Securitizers
 - · SPV
- Depository Institutions
- •Insurance Companies
 - Moral hazard, Adverse selection, fraud
- Arbitrageurs
- Clearinghouses and Custodians
- Hedgers

Problems of no regulations	Objectives of market regulations
Fraud and theft	Protect unsophisticated investors.
Insider trading	Prevent insiders from exploiting other investors.
Costly information	Common financial reporting requirements.
Defaults	honor long-term commitments.

概念,学会识别参与者

Assets and Markets

Classification of markets

- Primary vs. Secondary markets
- Money vs. Capital markets
- Traditional vs. Alternative markets





Secondary Capital Markets

When securities are traded

- Call Markets
- Continuous Markets

How securities are traded

- Order-Driven Market
 - Price priority
 - Secondary precedence rule
- Quote-Driven Market
 - Bid-Ask Spread
- Brokered Markets

How securities are sold through primary market

- Sold Publicly :
 - •Underwritten Offering (the most common way)
 - Best Efforts
 - Indications of Interest
 - Sold Privately
 - Private placement → to qualified investors
 - Other transaction methods
 - Shelf registration
 - Dividend Reinvestment Plan → existing shareholders
 - •Rights Offering → existing shareholders





Underwritten offering	Best Efforts	
IB bears risk	Company bears risk	
price be set low enough	sets the issue price as high as possible	



Classification Of Assets

Financial Assets

- Security
 - •Fixed income vs. Equity Securities
 - Public vs. private
- Currency
- Derivative contracts
 - Financial derivative contracts
 - Physical derivative contracts

·Real Assets

- Commodity
- •Real Estate

概念,注意子分类

Positions An Investor Can Take

- Long Position
 - •Benefit form an *increase* in the price
- •Short Position → Payment in lieu ★ ★
 - •Benefit form an *decrease* in the price
- Leveraged Position
 - •Benefit form an *increase* in the price



Margin Call Price

$$P_L' = P_0 \left(\frac{1 - IM}{1 - MM} \right)$$

(
Fixed income	Bonds	Generally <i>long-term</i>
	Notes	Intermediate term
	Bills	Short term
	Commercial paper	Short term issued by firms
	Certificates of deposit	Issued by <i>banks</i>
	Repurchase agreements	Repurchase agreements can be for terms as short as one day
	Convertible debt	can exchange for a specified number of equity shares
Pref	Common stock	Residual claim on a firm's assets.
	Preferred stock	equity security with scheduled dividends
	Warrants	Are <i>similar to options</i>
Pooled investment vehicles	Mutual funds	open-end fundsclosed-end funds
	ETF/ETN	trade like closed-end funds and open-end fund
	ABS	a claim to a portion of a pool of financial assets
	Hedge funds	organized as limited partnerships with leverage.compensated based on AUM.

Practical Issues

Instructions of transaction processes



Execution Instructions

- Market orders
- Limit orders
- All-or-nothing orders
- Hidden orders
- Iceberg orders
- Make a market
- Make a new market
- Take a market
- Behind the market
- At the market

Validity Instructions

- Day orders
- Good-till-cancelled orders
- Immediate or cancel orders
- Good-on-close orders
- •Good-on-open orders
- Stop orders *

Clearing Instructions

standing instructions and not attached to an order



提供information

Market Information

信息透明度要求

- •Pre-trade transparent → Preferred by buy-side traders
- •Post-trade transparent → Preferred by dealers

Security Market Indices

Introduction of Security Market Index

Definitions

How An Index Is Constructed

Uses of Indexes

- Price index
- •Return index

- What is the target market the index is intended to measure?
- Which securities from the target market should be included in the index?
- How should the securities be weighted in the index?
- How often should the index be rebalanced?
- When should the selection and weighting of securities be reexamined?

- Reflection of investor confidence.
- Benchmark of manager performance.
 - •Measure of market return and risk.
 - •Measure of beta and risk-adjusted return.
 - Model portfolio for index funds



Rebalancing and Reconstitution







计算,缺点

Weighting Schemes For Indexes

- Price-Weighted Index
 - Buy equal number of shares
 - Bias toward high price stock
 - Adjust of dividers when stock splits
- Equal-Weighted Index
 - Buy equal amount of money → Most frequently rebalancing
 - Bias toward small cap stock
 - Arithmetic mean vs. Geometric mean

- Market Capitalization-Weighted Index
 - Bias toward non-tradable shares
- A Float-Adjusted Market Capitalization-Weighted Index
 - Bias toward overvalued stock
- Fundamental weighting
 - value-tilted
 - contrarian-style

Common index

Equity Indexes

- Broad market index
- Multi-market index
- Multi-market index with fundamental weighting
- Sector Index
- Style index

Fixed-Income Indexes

- Large universe of securities
- turnover is high
- Dealer markets and infrequent trading

了解特征

Alternative Indexes

- Commodity indexes
- Real estate indexes
- Hedge Fund Indexes

Market Efficiency

Market Efficiency



Factors affect market efficiency

- •Number of market participant
- Availability of information
- •Impediments to trading
- Transaction and information costs

Types	Assumption	Implication
Weak-Form EMH	Market info •Price vs Volume	Technical Analysis ×
Semi Strong-Form EMH	Public info. •Market vs Non-market	Fundamental Analysis ×
Strong-Form EMH	All info. •Public vs. Private	Nobody can win the market → Passive Investment

包括信息范围、那些信息不能用



试图推翻EMH ★ →不能推翻EMH, 概念

Market Anomalies

- Calendar anomalies
- The overreaction effect
- Momentum anomalies
- Size effect
- Value effect
- Closed-end investment funds
- Earnings announcements
- Initial public offerings
- Economic fundamentals

Behavioral Finance

- Loss aversion
- Overconfidence bias
- Representativeness
- Gambler's fallacy
- Mental accounting
- Conservatism
- Disposition effect
- Narrow framing
- Herding behavior

Overview of Equity Securities

Classification Of Equity Securities *

Publicly traded

- Common Shares
 - Callable common shares
 - Putable common shares
- Preference shares
 - Cumulative preference shares
 - Non-cumulative preference
- Convertible preference shares

Privately traded

- Venture Capital
- Leverage Buyout
- PIPE

Oversea Traded

- Direct investing
- Global registered shares
- Depository receipts *
- •BLDR

不同类型投资风险区别

Risk And Return Characteristics Of Equity Securities

Equity returns

- dividends
- reinvestment of dividends
- Capital gains or losses
- •Foreign exchange g&l

Equity Risk

- Preferred stock is less risky than common stock
- Cumulative preferred shares *less risk* than non-cumulative preferred shares
- Putable shares are less risky for investor
- callable shares are more risky for investor

Introduction to Industry and company Analysis

Top-down Process

Step 1: Economic Analysis



- Macroeconomic
- Technology
- Demographics
- Governments
- Social influence

五力模型 概念

Competitive Advantage → Pricing Power

- Rivalry among existing competitors
- Threat of new entrants
- Threat of substitute products
- Bargaining power of buyers
- Bargaining power of suppliers

Step 3: Company Analysis

- •Three generic competitive strategies
 - Cost leadership
 - Differentiation
 - Focus



Peer

Group

Step 2: Industry Analysis

Industry Classification

- Industry Life Cycle *
 - Embryonic stage
 - Growth stage
 - Shakeout stage
 - Mature stage
 - Decline stage



- 征识别
- Sensitivity of Business Cycle
 - Cyclical firm
 - Non-cyclical firm
 - Defensive industries
 - Growth industries
- statistical methods
 - limitations

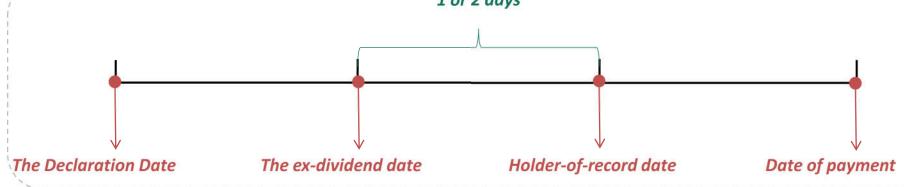




Equity Valuation: Concept and Basic Tool

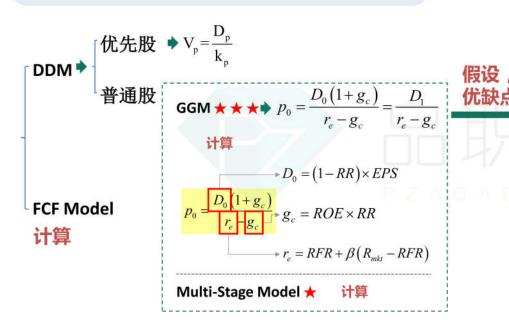
Different Types Of Dividends

Cash dividends Stock dividends **Share Repurchase** ↓ assets and equity. Signaling of undervalued shares Create more shares no effect on shareholder wealth Flexibility •A proportionate drop in the price •Tax efficiency (T_d>T_{cg}) per share → 分类 Absorb increases shares No effect on shareholder wealth Regular dividends Special dividends → Reverse stock splits 反过来 **Dividend Payment Chronology** 1 or 2 days



Valuation Methods

Method 1: DCF



Assumption

- Dividends grow at a constant rate
- •The constant growth rate will continue for an infinite period.
- •The required rate of return r is greater than growth rate g

Limitations

- •Very sensitive to r and g
- Difficult with non-dividend stocks
- Difficult with unpredictable growth patterns

Method 2: Price Multiple Approach



- Easily calculated
- Can be used in time series
- Cross session comparable

Disadvantages

Reflect only past

Calculation

- Price multiples based on comparables
- Price multiples based on fundamentals

Leading P/E

$$\frac{P_0}{E_1} = \frac{D_1/E_1}{k-g} = \frac{1-b}{k-g}$$

Trailing P/E

$$\frac{P_0}{E_0} = \frac{(1-b)(1+g)}{k-g}$$

★计算





EV = market value of common stock + market value of preferred equity + market value of debt— cash and short-term investments

Method 3: Asset-based valuation

计算,有市场价格用市 无则账面价值

- primarily tangible short-term assets
- assets with ready market values
- •The firm will cease to operate and is being liquidated.













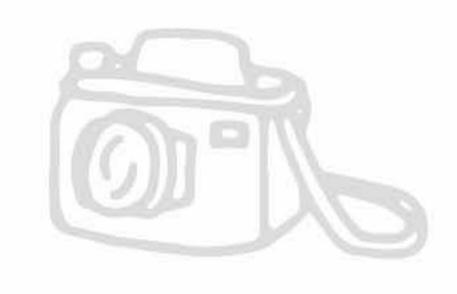






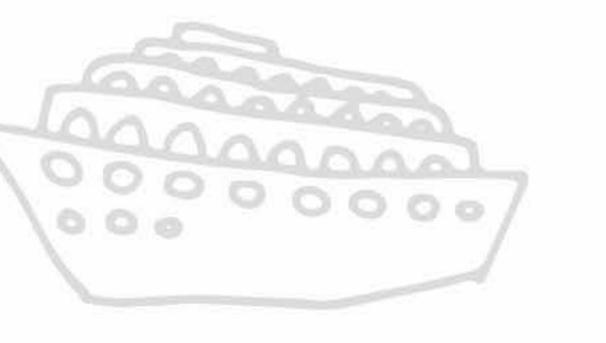
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