Chapter 20 Assignment Project Exam Help

Financial Cope papiestion der.com

Opportunity and Crisis
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Instructor: Youngsoo Jang

## Learning Objectives (1 of 2)

- **20.1** Understand the economic function of international portfolio diversification.
- Assignment Project Exam Help 20.2 Explain factors leading to the explosive recent growth of international financial markets.

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- 20.3 Analyze problems in the regulation and supervision of international banks and the control of international banks and the control of the
- **20.4** Describe some different methods that have been used to measure the degree of international financial integration.

## **Learning Objectives** (2 of 2)

**20.5** Understand the factors leading to the worldwide financial crisis that started in 2007.

Assignment Project Exam Help 20.6 Evaluate the performance of the international capital market in linking the economies of the industrial countries.

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#### **Preview**

- Gains from trade
- Portfolio diversification. Project Exam Help
- Players in the international capital markets
- Attainable policies with https://powcoder.com
- Offshore banking and offshore banking
- Regulation of international banking
- Tests of how well international capital markets allow portfolio diversification, allow intertemporal trade, and transmit information

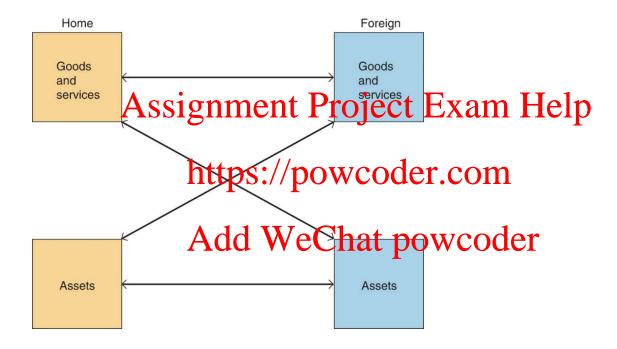
## **International Capital Markets**

- International asset (capital) markets are a group of markets (in London, Tokyo, New York, Singapore, and other financial cities) that trade different expression fire project (capital), including
  - stockshttps://powcoder.com
  - bonds (government and private sector)
  - deposits denominated Andriff Mee Chatenpiesw coder
  - commodities (such as petroleum, wheat, bauxite, gold)
  - forward contracts, futures contracts, swaps, options contracts
  - real estate and land
  - factories and equipment

### Gains from Trade (1 of 4)

- How have international capital markets increased the gains from trade?
- When a buyer and a selfer engage in a voluntary transaction, both receive something that they want and both can be made better off.
- A buyer and seller can tadel WeChat powcoder
  - goods or services for other goods or services
  - goods or services for assets
  - assets for assets

# Figure 20.1 The Three Types of International Transaction



Residents of different countries can trade goods and services for other goods and services, goods and services for assets (that is, for future goods and services), and assets for other assets. All three types of exchange lead to gains from trade.

### Gains from Trade (2 of 4)

- The theory of **comparative advantage** describes the gains from trade of goods and services for other goods and service Assignment Project Exam Help
  - With a finite amount of resources and time, use those resources and the to power of are most productive at (compared to alternatives), then trade those products follows Chat power that you want.
  - Be a specialist in production, while enjoying many goods and services as a consumer through trade.

### Gains from Trade (3 of 4)

- The theory of **intertemporal trade** describes the gains from trade of goods and services for assets, of goods and services today for clarging pental and the periods assets).
  - Savers want to buy as tetro slain pot the good and services and borrowers want to use assets to consume or invest in more goods and services than they can buy with current income.
  - Savers earn a rate of return on their assets, while borrowers are able to use goods and services when they want to use them: they both can be made better off.

### Gains from Trade (4 of 4)

- The theory of **portfolio diversification** describes the gains from trade of assets for assets, of assets with one type of risk for assets with another replect Fixam Help
  - Investing in a diverse set, or portfolio, of assets is a way for investors to attention of assets is a
  - Most people most of the time want to avoid risk: they would rather have a sure gain of weath than invest in risky assets when other factors are constant.
    - People usually display risk aversion: they are usually averse to risk.

### Portfolio Diversification (1 of 3)

- Suppose that two countries have an asset of farmland that yields a crop, depending on the weather.
- The yield (return) of the significant ertanject with and Help weather the land can produce 20 tons of potatoes, while with good weather the landtons of potatoes.
- On average, the land will produce W2 con a verage the land will produce with the land will be the land will be
- if bad weather and good weather are equally likely (both with a probability of 1/2).
  - The expected value of the yield is 60 tons.

### **Portfolio Diversification** (2 of 3)

- Suppose that historical records show that when the domestic country has good weather (high yields), the foreign country has bad weather (logicies) ment Project Exam Help
  - and that we can assume that the future will be like the past.
     https://powcoder.com
- What could the two countries do to avoid suffering from a bad potato crop?
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- Sell 50% of one's assets to the other party and buy 50% of the other party's assets:
  - diversify the portfolios of assets so that both countries always achieve the portfolio's expected (average) values.

### Portfolio Diversification (3 of 3)

- With portfolio diversification, both countries could always enjoy a
  moderate potato yield and not experience the vicissitudes of
  feast and famine.
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  - If the domestic country's yield is 20 and the foreign country's yield is 100, then both countries receive https://powcoder.com

  - If both countries are risk averse, then both countries could be made better off through portfolio diversification.

#### **Classification of Assets**

Assets can be classified as either

- Debt instruments
  - Examples include bonds and deposits.

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  - They specify that the issuer must repay a **fixed** amount regardless of economic **configurations powcoder.com**

or

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- **Equity instruments** 
  - Examples include stocks or a title to real estate.
  - They specify ownership (equity = ownership) of variable profits or returns, which vary according to economic conditions.

## International Capital Markets (1 of 3)

#### The participants:

- 1. Commercial banka and other depository in Exitation Felp
  - Accept deposits.
  - Lend to commercial burnesses P. Wther Early, m governments, and/or individuals.
  - Buy and sell bonds and other assets. powcoder
  - Some commercial banks underwrite new stocks and bonds by agreeing to find buyers for those assets at a specified price.

## International Capital Markets (2 of 3)

2. Non-bank financial institutions such as securities firms, pension funds, insurance companies, mutual funds:

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Securities firms specialize in underwriting stocks

and bonds (securities) and in making various investments.

- Pension funds accept funds from workers and er invest them until the workers retire.
- Insurance companies accept premiums from policy holders and invest them until an accident or another unexpected event occurs.
- Mutual funds accept funds from investors and invest them in a diversified portfolio of stocks.

## International Capital Markets (3 of 3)

#### 3. Private firms:

- Corporations may issue stock, may issue bonds, or may borrow to acquire tunes for investment purposes.
- Other private firms may issue bonds or may borrow from commercial banks. / powcoder.com
- 4. Central banks and government We Clast powcoder
  - Central banks sometimes intervene in foreign exchange markets.
  - Government agencies issue bonds to acquire funds, and may borrow from commercial banks or securities firms.

## Offshore Banking (1 of 2)

- Offshore banking refers to banking outside of the boundaries of a country.
- There are at least three types of offshore banking institutions, which are regulated differently:

  \*\*There are at least three types of offshore banking institutions, which are regulated differently:

  \*\*There are at least three types of offshore banking institutions, which are regulated differently:

  \*\*There are at least three types of offshore banking institutions, which are regulated differently:
  - 1. An **agency office** in a foreign country makes loans and transfers, but do the content therefore not subject to depository regulations in either the domestic or foreign country.

## Offshore Banking (2 of 2)

- 2. A **subsidiary bank** in a foreign country follows the regulations of the foreign country, not the domestic regulations of the signescent are expected as the signescent are expected.
- 3. A **foreign branch** of a domestic bank is often subject to both domestic bank is often but sometimes may choose the more lenient regulations of the two.dd WeChat powcoder

## Offshore Currency Trading (1 of 3)

- An offshore currency deposit is a bank deposit denominated in a currency other than the currency that circulates where stignments designed Exam Help
  - An offshore currency deposit may be deposited in a subsidiary bank, a foreign brank, Grank Grank Grank, a foreign country. Add WeChat powcoder
  - Offshore currency deposits are sometimes (confusingly) referred to as eurocurrency deposits, because these deposits were historically made in European banks.

## **Offshore Currency Trading** (2 of 3)

Offshore currency trading has grown for three reasons:

- 1. growth in international trade and international business Assignment Project Exam Help
- avoidance of domestic regulations and taxes https://powcoder.com
   political factors (e.g., to avoid confiscation by a
- 3. political factors (e.g., to avoid confiscation by a government because of political events)

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## Offshore Currency Trading (3 of 3)

- Reserve requirements are the primary example of a domestic regulation that banks have tried to avoid through offshore currency transfer gnment Project Exam Help
  - Depository institutions in the United States and other countries are required to play a fraction of demestic currency deposits on reserve at the central bank.
  - These reserves cannot belief two cuttamers and denot earn interest in many countries, therefore the reserve requirement reduces income for banks.
  - But offshore currency deposits in many countries are not subject to this requirement, and thus can earn interest on the full amount of the deposit.

## **Banking and Financial Fragility**

- Banks fail because they do not have enough or the
  - right kind of assets to pay for their liabilities.

     The principal liability from the principal liabilities and Help other depository institutions, is the value of deposits, and banks hall when their depositors.
    - If the value of assets deline, eschetches Flager loans go into default, then liabilities could become greater than the value of assets and bankruptcy could result.
- In many countries there are several types of regulations to avoid bank failure or its effects.

# Government Safeguards against Financial Instability (1 of 5)

#### 1. Deposit insurance

- Insures depositors against loss sprojete El 2000 Hielp the United States when banks fail.
- Prevents bank panichter to pack of information: because depositors cannot determine the financial health of a bank, they may puickly with draw their funds if they are not sure that a bank is financially healthy enough to pay for them.

# **Government Safeguards against Financial Instability** (2 of 5)

- Creates a moral hazard for banks to take excessive risk because they are no longer fully responsible for failure.
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  - Moral hazard: a hazard that a party in a transaction will entage: in potwice detaction will entage: in potwice detaction will entage in potwice detaction according to another days what potwice informed about those activities

#### 2. Reserve requirements

 Banks required to maintain some deposits on reserve at the central bank in case they need cash.

# **Government Safeguards against Financial Instability** (3 of 5)

#### 3. Capital requirements and asset restrictions

- Higher bank capital (net worth) the party banks have merelp funds available to cover the cost of failed assets.
- Asset restrictions reduce risky investments by preventing a bank from holding too many risky assets and encourage diversification by preventing a bank from holding too much of one lessel. eChat powcoder

#### 4. Bank examination

Regular examination prevents banks from engaging in risky activities.

# **Government Safeguards against Financial Instability** (4 of 5)

#### 5. Lender of last resort

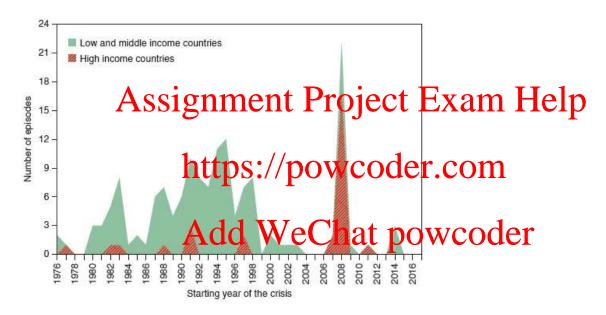
- In the United States other Federal Reserve System Help may lend to banks with inadequate reserves (cash).
- Prevents bank panichttps://powcoder.com
- Acts as insurance for depositors and banks, in addition to deposit iAsdchneeChat powcoder
- Creates a moral hazard for banks to take excessive risk because they are not fully responsible for the risk.

# Government Safeguards against Financial Instability (5 of 5)

#### 6. Government-organized bailouts

- Failing all else, the central bank or fiscal exthorities p may organize the purchase of a failing bank by healthier institutions sometimes throwing their own money into the deal as a sweetener.
- In this case, bankruptcy is woided thanks to ther government's intervention as a crisis manager, but perhaps at public expense.
- Safeguards were not nearly sufficient to prevent the financial crisis of 2007–2009.

# Figure 20.2 Frequency of Systemic Banking Crises by Country Income Level, 1976–2017



Generalized banking crises have been plentiful around the world since the mid-1970s, mainly in poorer countries, but starting in 2008, a substantial number of richer countries were also hit hard.

**Source:** Reproduced from Laeven and Valencia, **op. cit.** Thanks to Luc Laeven for supplying these data

# Difficulties in Regulating International Banking (1 of 4)

- 1. Deposit insurance in the United States covers losses up to \$100,000, but since the size of deposits in international banking ignificant length of insurance is often minimal.
- 2. Reserve requirements also act as a form of insurance for depositors, but countries cannot impose reserve requirements on foreign currency deposits in agency offices, foreign branches, or subsidiary banks of domestic banks.

# Difficulties in Regulating International Banking (2 of 4)

3. Bank examination, capital requirements, and asset restrictions are more difficult internationally.

- Distance and language barriers make monitoring difficult.

- Different assets with different characteristics (e.g., risk) exist in different countries making judgment difficult.
- Jurisdiction is not clear in the case of subsidiary banks: for example, if a subsidiary of an Italian bank is located in London but primarily has offshore U.S. dollar deposits, which regulators have jurisdiction?

# Difficulties in Regulating International Banking (3 of 4)

- 4. No international lender of last resort for banks exists.
- The IMF sometimes acts a "length of dest resent" Help for governments with balance of payments problems.

  5. The activities of nonbank manual institutions are
- 5. The activities of nonbank financial institutions are growing in international banking, but they lack the regulation and supervision that banks the coder

# Difficulties in Regulating International Banking (4 of 4)

- 6. Derivatives and securitized assets make it harder to assess financial stability and risk because these assets are not accounted for gnimental ito ica to have Help
  - A securitized asset is a combination of different illiquid assets like loans that is sold as a security.

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### The Financial Trilemma (1 of 4)

- Regulations of the type used in the United States and other countries become even less effective in an international environment barajecan Exiatinh likelp business among different regulatory jurisdictions.
- To see why an international banking system is harder to regulate than a national system, look at how the effectiveness of the U.S. safeguards described earlier is reduced as a result of offshore banking activities.

### The Financial Trilemma (2 of 4)

1. Deposit insurance is essentially absent in international banking.

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While Eurobanks derived a competitive advantage from escaping the required reserve tax, there was a social cost by reducing the stability of the banking system.

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#### The Financial Trilemma (3 of 4)

- 3. Bank examination to enforce capital requirements and asset restrictions is difficult in an international setting.
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   4. Several governments may have to share operational
- 4. Several governments may have to share operational and financial responsibility for a rescue or reorganization.

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### The Financial Trilemma (4 of 4)

- A **financial trilemma** constrains what policymakers in an open economy can achieve. At most two goals from the following list of the property of the following list of the property of the p
- 1. Financial stability. <a href="https://powcoder.com">https://powcoder.com</a>
- 2. National control over financial safeguard policy.

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- 3. Freedom of international capital movements

### **International Regulatory Cooperation** (1 of 3)

- Basel accords (in 1988 and 2006) provide standard regulations and accounting for international financial institutions.
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  - 1988 accords tried to make bank capital measurements standattpacropowgoder.com
  - They developed risk-based capital requirements, where more risky assets require a higher and pervarious of bank capital.

### **International Regulatory Cooperation** (2 of 3)

- Core principles of effective banking supervision was developed by the Basel Committee in 1997 for countries without adequate banking regulations and accommendations are banking in the project Exam Help
- The financial crisis made obvious the inadequacies of the Basel II regulatory fram workwein 2010 the Basel Committee proposed a tougher set of capital standards and regulatory safeguards for international banks, Basel III.

### **International Regulatory Cooperation** (3 of 3)

- In April 2009, at the height of the global crisis, the Financial Stability Forum became the Financial Stability Board (FSB), with Assignment Beoing (in ExampHelp number of emerging market economies) and a larger permanent staff.

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- Many countries have embarked on far-reaching national reforms of their financial systems.

## The Macroprudential Perspective

- Ensuring that each individual financial institution is sound will not ensure that the financial system as a whole is sound. Assignment Project Exam Help
- National financial regulators often face fierce lobbying from their home financial institutions, which argue that stricter rules would put them at a disadvantage relative to foreign rivals.
- The Basel multilateral process plays an essential role in allowing governments to overcome domestic political pressures against adequate oversight and control of the financial sector.

#### The Global Financial Crisis of 2007–2009 (1 of 3)

- The global financial and economic meltdown of 2007–2009 was the worst since the Great Depression.
- Banks throughout the work falled or required extensive Help government support to survive; the global financial system froze; and the entire world the somp was coden. Com recession.
- Unlike some recessions, this one originated in a shock to financial markets, and the shock was transmitted from country to country by financial markets, at lightning speed.
- The crisis had a seemingly unlikely source: the U.S. mortgage market.

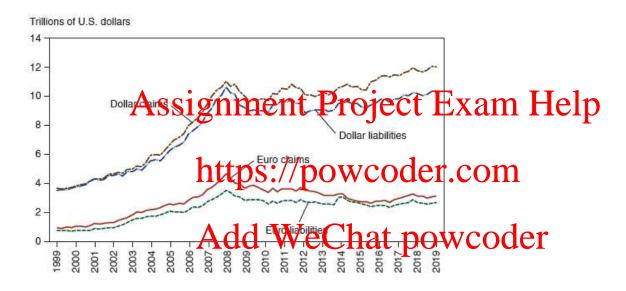
#### The Global Financial Crisis of 2007–2009 (2 of 3)

- In the mid-2000s, U.S. interest rates were very low and U.S. home prices bubbled upward, with mortgage lenders extending that the lower back manufacture of the lower back o
- Then U.S. interest rates started moving up as the Federal Reserve gradually tightened monetary policy to ward off inflation.
  - U.S. housing prices started to decline in 2006.
- As subprime borrowers increasingly missed their payments during 2007, lenders became more aware of the risks they faced and pulled back from markets.

#### The Global Financial Crisis of 2007–2009 (3 of 3)

- Despite central banks providing markets with extensive liquidity support, stock markets fell everywhere.
- The U.S. economy slipped into recession late in 2007, pushed by lack of credit and a collapsing housing market.
- American money market And the U.S. Treasury.
- The U.S. Congress allocated \$700 billion to buy troubled assets from banks, in hopes that of allowing them to resume normal lending.
- These problems spread globally. Recovery was quite slow.

# **Cross-Border Bank Positions in Dollars** and Euros, 1999–2019



Data on international banking transactions illustrate how the U.S. dollar is the world's premier funding currency, far outstripping the euro.

**Source:** Bank for international Settlements, Locational Banking Statistics data on reporting banks.

# **Extent of International Portfolio Diversification** (1 of 2)

- In 2008, U.S.-owned assets in foreign countries represented about 46.6% of U.S. capital, while foreign assets in the United States represented appropriately. The printer Help
  - These percentages are about 5 times as large as percentages from 197 htipsicatips that international capital markets have allowed investors to diversify.
  - In a fully diversified world company to we of the second of the capital would be owned by foreigners, while U.S. residents' claims on foreigners would equal around 80% of U.S. capital.
- Likewise, foreign assets and liabilities as a percent of GDP has grown for the United States and other countries.

## **Extent of International Portfolio Diversification** (2 of 2)

• Still, some economists argue that it would be optimal if investors diversified more by investing more in foreign assets, avoiding the stoggenment dringestment and Help

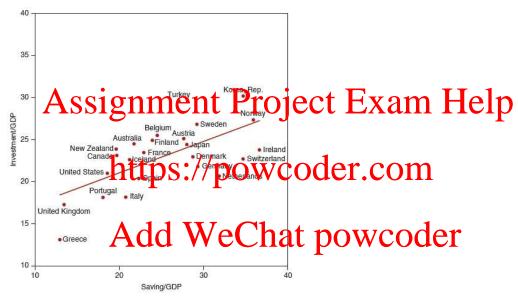
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## **Extent of International Intertemporal Trade** (1 of 2)

- If some countries borrow for investment projects (for future production and consumption) while others lend to these countries, then national saying and investment levels should provide the highly correlated.
  - Recall that national saving this extrement correct account
  - Some countries should have large current account surpluses as they save A dd and countries.
  - Some countries should have large current account deficits as they borrow a lot from foreign countries.
- In reality, national saving and investment levels are highly correlated.

# Figure 20.3 Saving and Investment Rates for 24 Countries, 1990–2019 Averages



OECD countries' saving and investment ratios to output tend to be positively related. The straight regression line in the graph represents a statistician's best guess of the level of the investment ratio, conditional on the saving ratio, in this country sample.

Source: World Bank, World Development Indicators.

## Extent of International Intertemporal Trade (2 of 2)

- Are international capital markets unable to allow countries to engage in much intertemporal trade?
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   Not necessarily: factors that generate a high saving
- Not necessarily: factors that generate a high saving rate, such as rapid growth in production and income, may also generate a high investment rate.
- Governments may also Andct Whitehate providender current account deficits or surpluses.

### Extent of Information Transmission and Financial Capital Mobility (1 of 5)

- We should expect that interest rates on offshore currency deposits and those on domestic currency deposits within a cossignment Perties in Ferm Help
  - the two types of deposits are treated as perfect substitutes,
     https://powcoder.com substitutes,

  - assets can flow freely across borders, and
     international capital markets are able to quickly and easily transmit information about any differences in rates.

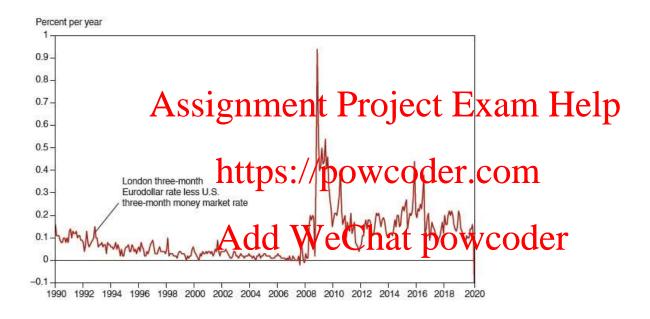
# **Extent of Information Transmission and Financial Capital Mobility** (2 of 5)

• In fact, differences in interest rates have approached zero as financial capital mobility has grown and information processing has beconstant the projector of the computers and telecommunications.

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## Figure 20.4 Comparing Onshore and Offshore Interest Rates for the Dollar



The difference between the London and U.S. interest rates on dollar deposits is usually very close to zero, but it spiked up sharply in the fall of 2008 as the investment bank Lehman Brothers collapsed and has remained volatile.

**Source:** Board of Governors of the Federal Reserve System and OECD, monthly data.

# Extent of Information Transmission and Financial Capital Mobility (3 of 5)

• If assets are treated as perfect substitutes, then we expect interest parity to hold on average:

Assignment Project Exam Help  $R_{t}-R_{t}^{*} = \frac{\left(E_{t+1}^{*}-E_{t}\right)}{\text{https:}}$ https://powcoder.com

- Under this condition, the interest rate difference is the market's forecast of expected changes in the way of the work of the market's
  - If we replace expected exchange rates with actual future exchange rates, we can test how well the market predicts exchange rate changes.
  - But interest rate differentials fail to predict large swings in actual exchange rates and even fail to predict in which direction actual exchange rates change.

# **Extent of Information Transmission and Financial Capital Mobility** (4 of 5)

- Given that there are few restrictions on financial capital in most major countries, does this mean that international capital markets are unable to process and transmit information about interestHelp rates?
- Not necessarily: if assets are imperfect substitutes then  $R_t R^*_t = \frac{(E^*_{t+1} E_t)}{Add^t We Chat powcoder}$ 
  - Interest rate differentials are associated with exchange rate changes and with risk premiums that change over time.
  - Changes in risk premiums may drive changes in exchange rates rather than interest rate differentials.

# **Extent of Information Transmission and Financial Capital Mobility** (5 of 5)

$$R_t - R_t^* = \frac{\left(E_{t+1}^e - E_t\right)}{\text{Assignn Fient}} \stackrel{+}{\text{Project Exam Help}}$$

- Since both expected charges in least and effective and since risk premiums are functions of expectations and since expectations are unobservable.
  - it is difficult to test if international capital markets are able to process and transmit information about interest rates.

## **Exchange Rate Predictability**

- The best prediction for tomorrow's exchange rate appears to be today's exchange rate, regardless of economic variables.
- But over long time horizons (more than 1 year), economic variables do better at predicting actual exchange rates.

### Summary (1 of 3)

- 1. Gains from trade of goods and services for other goods and services are described by the theory of Help comparative advantage.
- 2. Gains from trade of gdottpandpowicesder.essets are described by the theory of intertemporal trade.
- 3. Gains from trade of assets for assets are described by the theory of portfolio diversification.
- 4. Policy makers can choose only two of the following: a fixed exchange rate, a monetary policy for domestic goals, free international flows of assets.

### Summary (2 of 3)

- 5. Several types of offshore banks deal in offshore currency trading, which developed as international trade grew and as banks tried to avoid domestic regulations.

  https://powcoder.com
- 6. Domestic banks are regulated by deposit insurance, reserve requirements, capital weather the central bank on assets, and bank examinations. The central bank also acts as a lender of last resort.
- 7. International banking is generally not regulated in the same manner as domestic banking, and there is no international lender of last resort.

### Summary (3 of 3)

- 8. As international capital markets have developed, diversification of assets across countries has grown and differences between interests rates on offshore currency deposits and domestic currency deposits within a country have shrunk.
- 9. If foreign and domesticate tweether test westitutes, then interest rates in international capital markets do not predict exchange rate changes well.
- 10. Even economic variables do not predict exchange rate changes well in the short run.