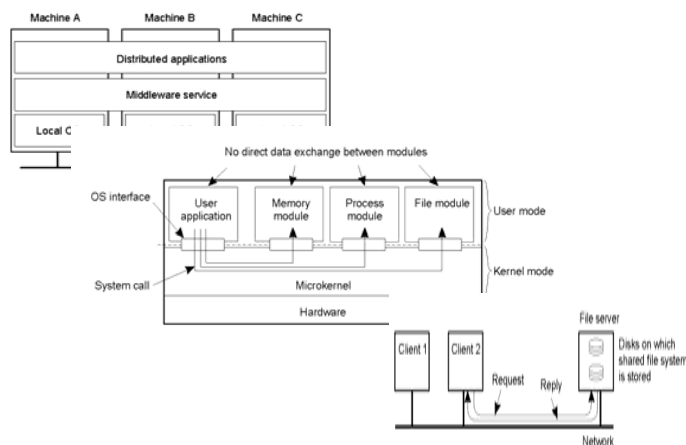
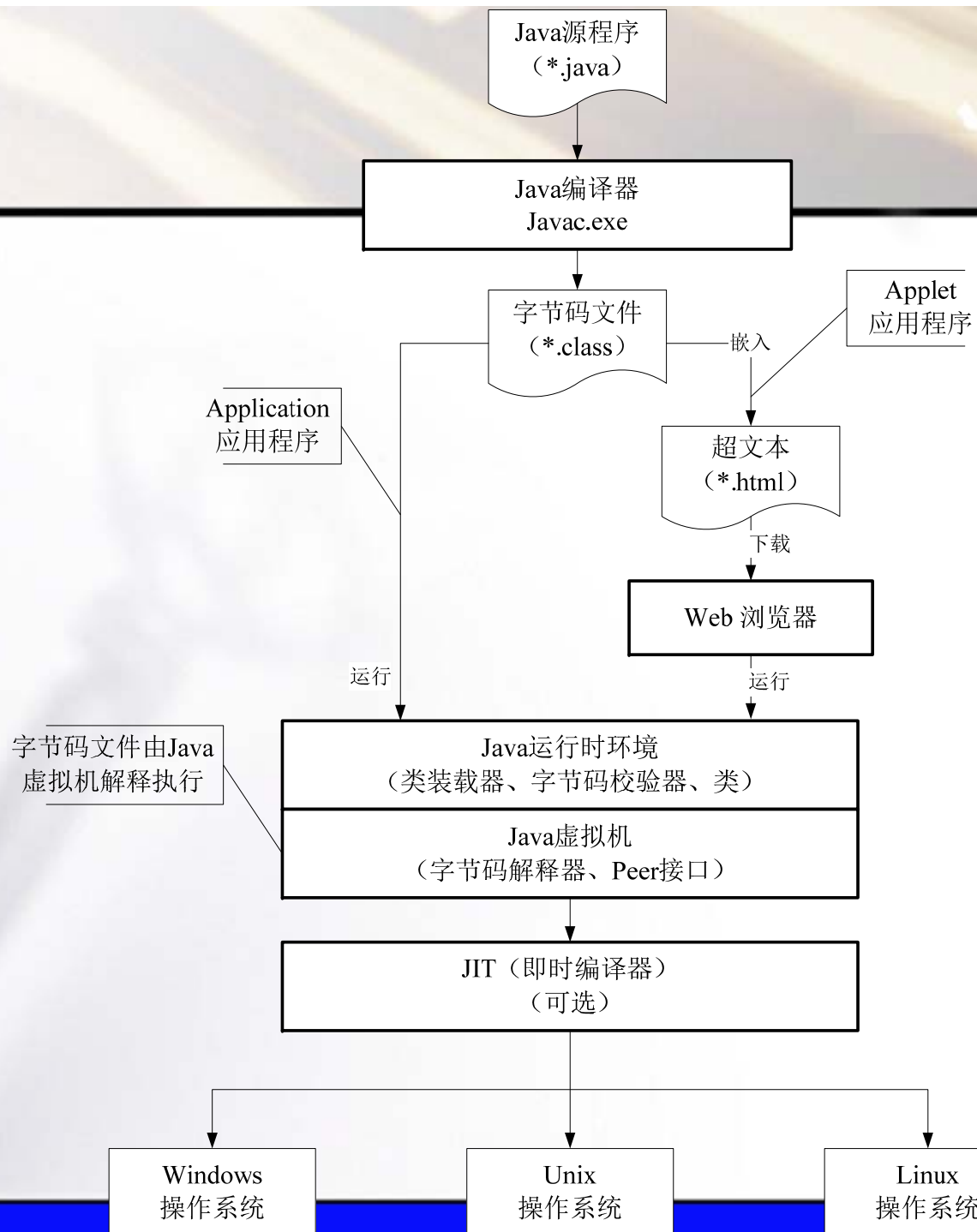


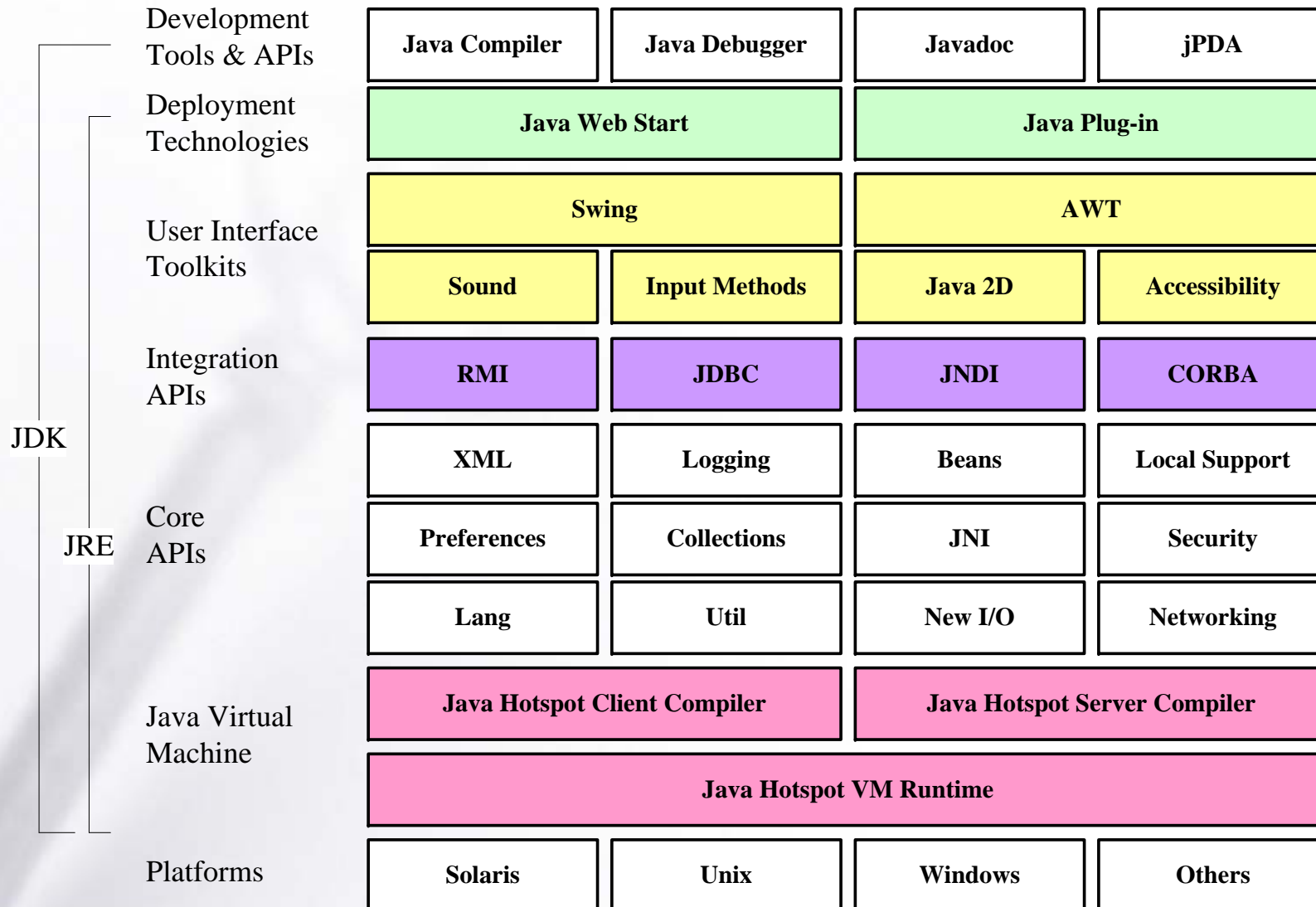


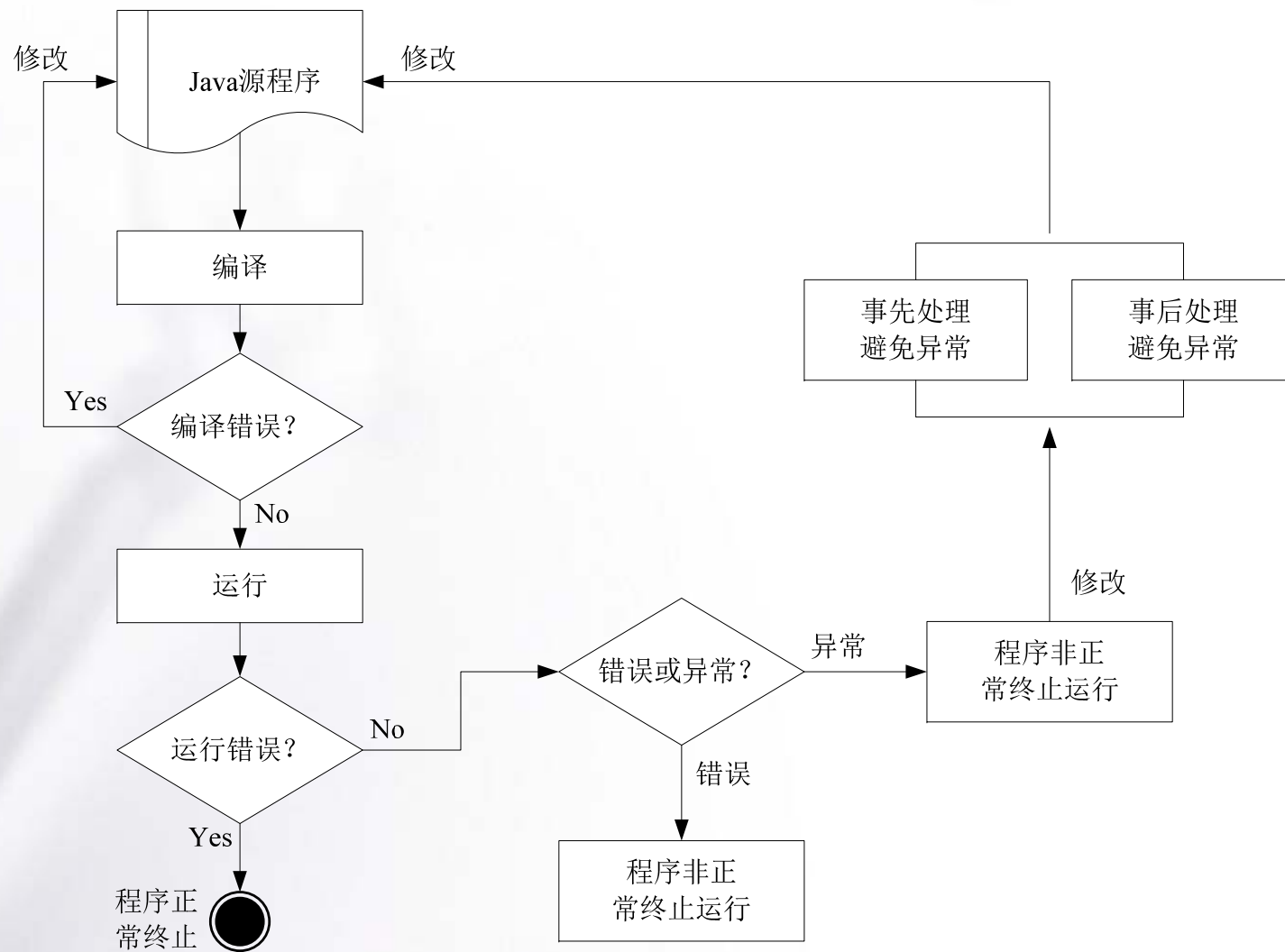
中山大學
SUN YAT-SEN UNIVERSITY

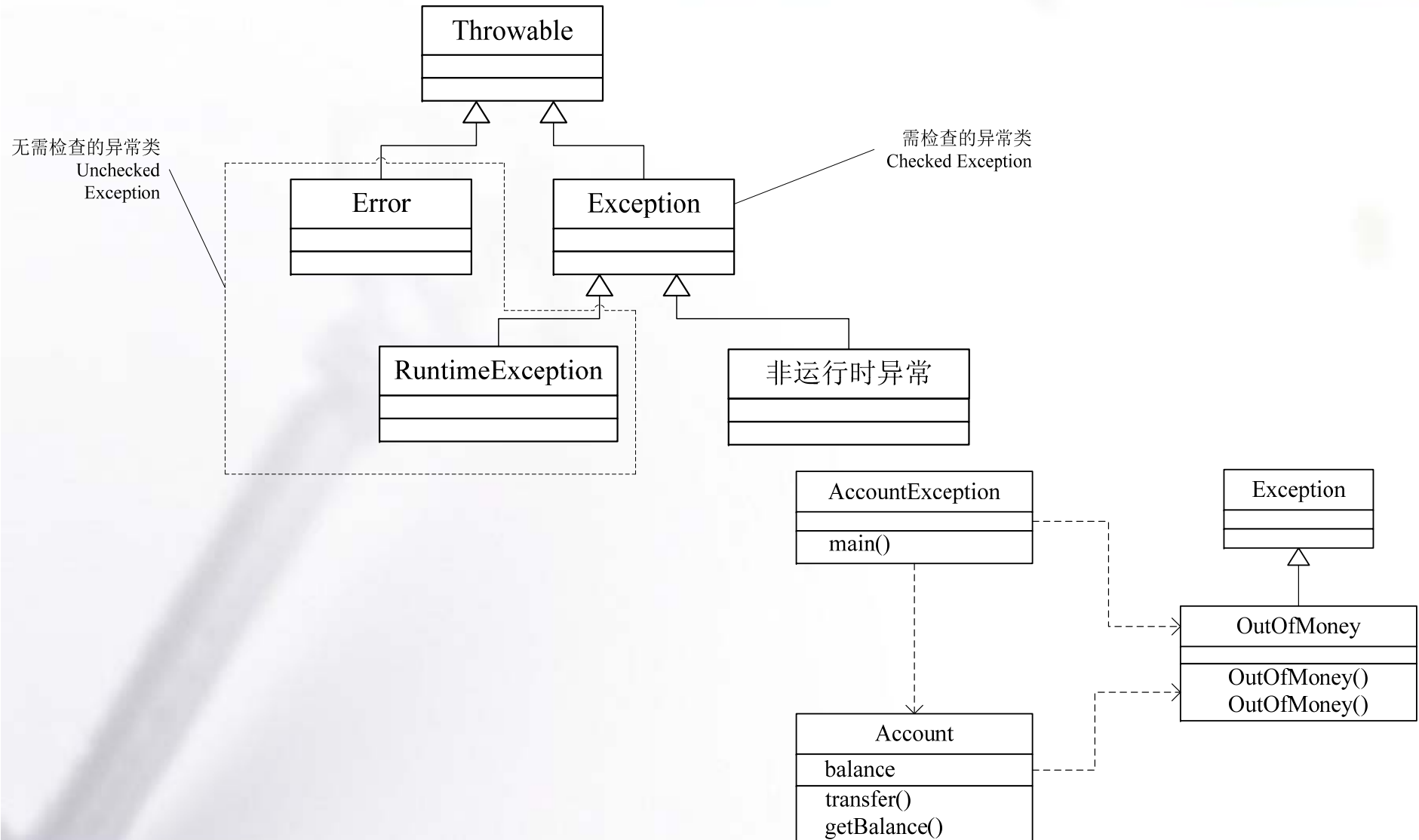


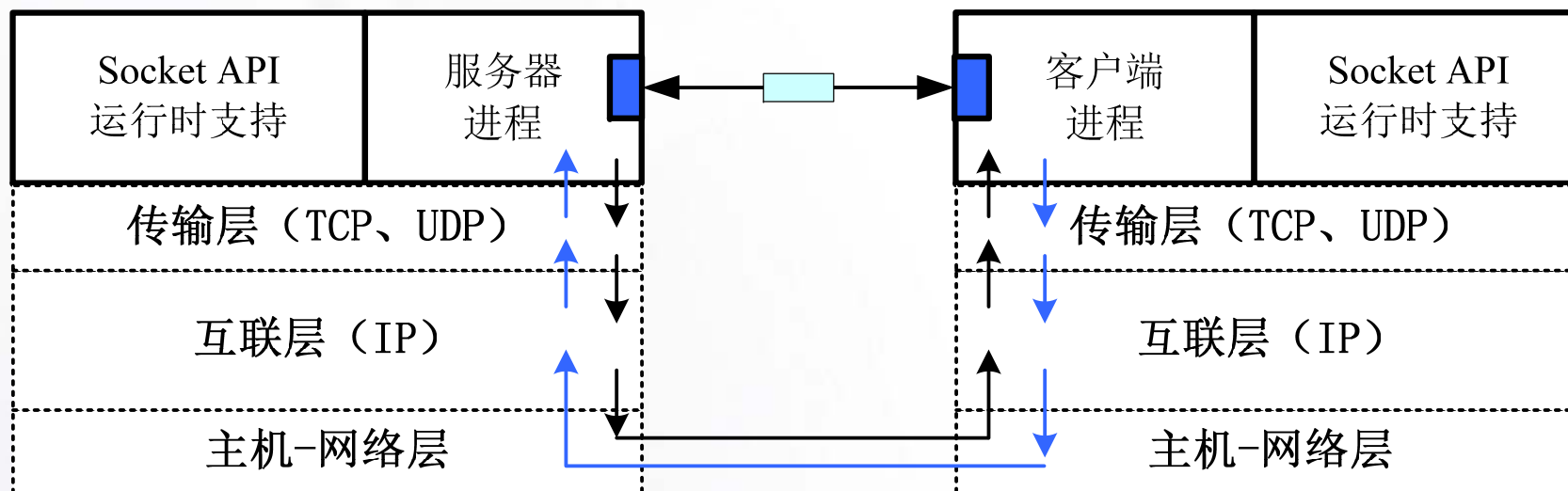
Distributed Computing

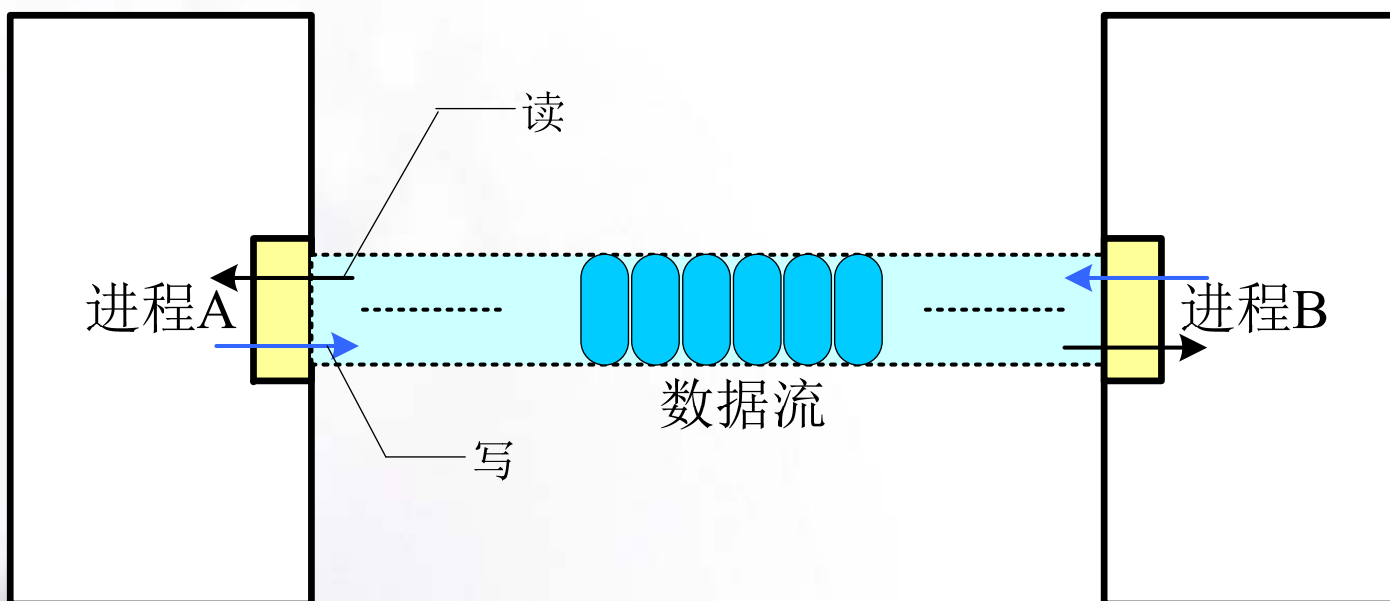


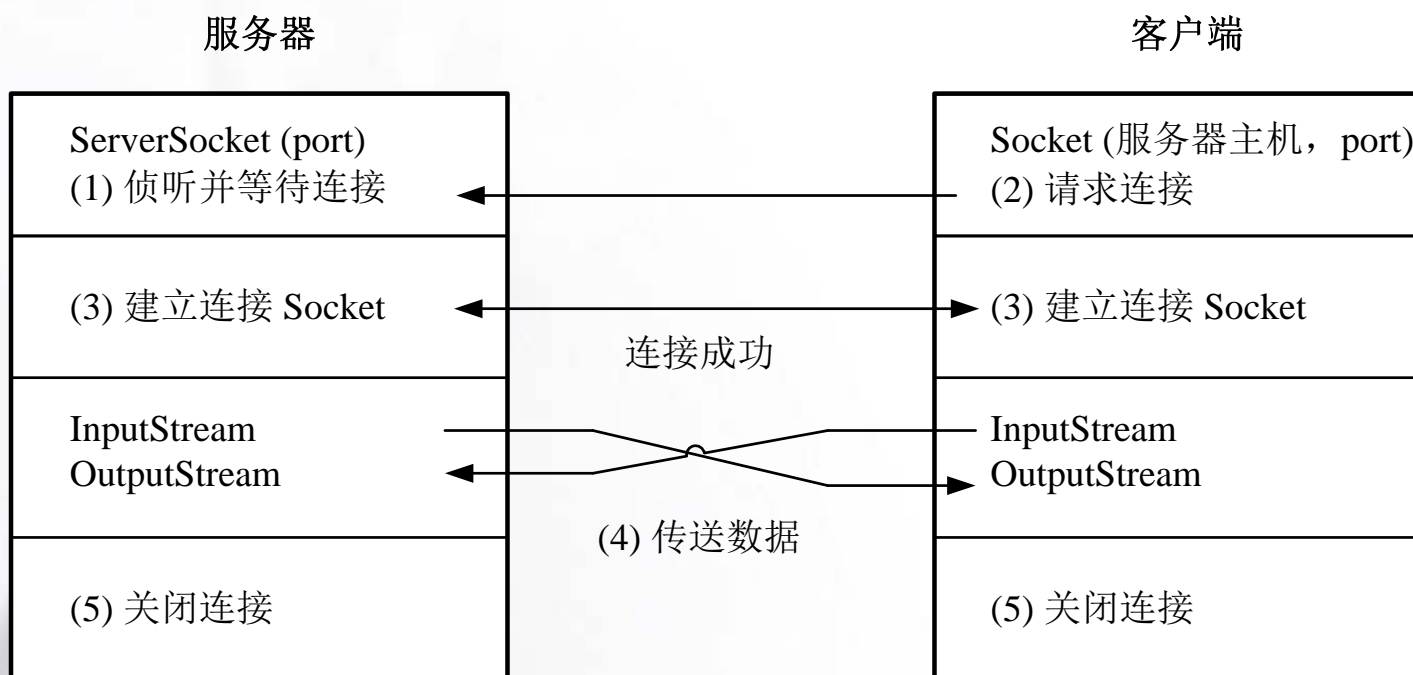













```
程序 2-4 RunnableThread.java 例程
// 通过实现Runnable接口定义新线程
class Counter implements Runnable {
    public void run() {
        for (int i = 0; i < 100; i++) System.out.println("计数器 = " + i);
    }
}

public class RunnableThread {
    public static void main(String[] args) {
        Counter counter = new Counter();
        Thread thread = new Thread(counter);
        thread.start();
        System.out.println("主程序结束");
    }
}
```

程序 2-5 SubclassThread.java例程

// 通过继承Thread类定义新线程

```
public class SubclassThread extends Thread {  
    public void run() {  
        while (true) {  
            // 执行线程自身的任务  
            try {  
                sleep(5 * 1000);  
                break;  
            } catch (InterruptedException exc) {  
                // 睡眠被中断  
            }  
        }  
    }  
  
    public static void main(String[] args) {  
        Thread thread = new SubclassThread();  
        thread.start();  
        System.out.println("主程序结束");  
    }  
}
```

程序 2-6 AccountSerializable.java 例程

//测试对象的序列化和反序列化

import java.io.*;

public class AccountSerializable{

public static void main(String[] args) throws Exception {

//创建本地文件输入流

File f = new File("objectFile.obj");

ObjectOutputStream out = new ObjectOutputStream(new FileOutputStream(f));

//序列化对象

Account Account1 = new Account("Zhang3", 1000);

Account Account2 = new Account("Li4", 2000);

out.writeObject(Account1);

out.writeObject(Account2);

out.close();

//反序列化对象

ObjectInputStream in = new ObjectInputStream(new FileInputStream(f));

Account obj1 = (Account) in.readObject();

System.out.println("Account1=" + obj1);

Account obj2 = (Account) in.readObject();

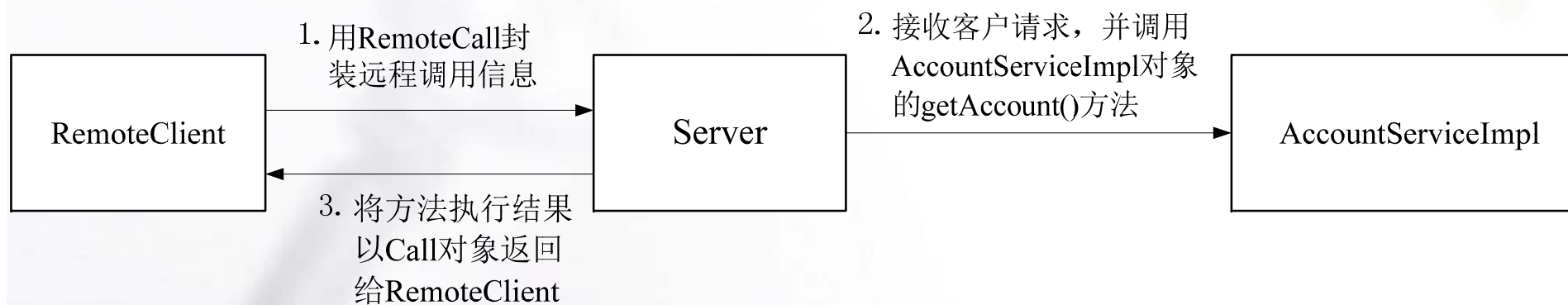
System.out.println("Account2=" + obj2);

in.close();

}

}

程序 2-6 AccountSerializable.java 例程
//Account 类实现 java.io.Serializable 接口
class Account implements Serializable {
 private String name;
 private double balance;
 public Account(String name, double balance) {
 this.name = name;
 this.balance = balance;
 }
 public String toString() {
 return "name=" + name + ", balance=" + balance;
 }
}



程序 2-8 AccountService.java 例程
//远程对象接口

```
public interface AccountService {  
    public String getAccount(String Name);  
}
```

程序 2-9 AccountServiceImpl.java 例程

//远程对象接口的实现类

```
public class AccountServiceImpl implements AccountService{  
    public String getAccount(String Name){  
        return "Account id: "+ Name;  
    }  
}
```

程序 2-10 RemoteCall.java 例程

//远程调用对象

import java.io.*;

public class RemoteCall implements Serializable{

private String className; //表示类名或接口名

private String methodName; //表示方法名

private Class[] paramTypes; //表示方法参数类型

private Object[] params; //表示方法参数值

//表示方法的执行结果

//如果方法正常执行，则result为方法返回值，如果方法抛出异常，那么result为该异常。

private Object result;

public RemoteCall(){}

public RemoteCall(String className,String methodName,Class[]
paramTypes, Object[] params){

 this.className=className;

 this.methodName=methodName;

 this.paramTypes=paramTypes;

 this.params=params;

}

public String getClassName(){return className;}

public void setClassName(String
className){this.className=className;}