### Chapter 1: Getting Started

JSP: Purpose and Facilities	
Evolution of Web-based Applications	2
CGI	
Other Technologies	4
JSP Portability.	5
Processing	6
Access Models: Client to JavaServer Page	7
Access Models: Client to Servlet	8
Guidelines for Choosing Access Models	. 10
Coding a JavaServer Page	. 11
Writing a JSP file	. 12
Storing the JSP File	
Testing the JSP File	
Web Development with JavaServer Pages Technology	
Separating Content Generation from Presentation	
Emphasizing Reusable Components	
Simplifying Page Development with Tags	
Robust Memory Management and Security	
Enterprise-class Scalability and Performance	
JSP Page: Typical Code	
Page Components	
JSP Directives	
JSP Tags	
Scripting Elements	
Application Models for JSP Pages	
A Simple Application	
Flexible Application with Java Servlets	
Scalable Processing with Enterprise JavaBeans Technology	
Integrating XML Technology in JSP Pages	. 24
Java APIs: Where Java Technology fits in the Java Family of Products	
Write Once, Run Anywhere	
ISP Extends Servlets	26

### Chapter 2: Coding JSP

Sample Application: sysed.jsp	
Sample Application: sysed.jsp	
The Include Directive	
Simple HTML Form	
PageFooter.html	
Code with Scriplets - SimpleJSP.jsp	
Date Object	
Handling HTML FormsCreating a Form	
A Simple Hello Application	
Java Bean Program	
Property in JSP	1
GET and POST Methods	
Writing the Bean	
Getting Data from the Form to the Bean	

SYS-ED/COMPUTER EDUCATION TECHNIQUES, INC. (JSP - 5.9)

TOC: Page 1

# Create Servlets and JavaServer Pages

Ta	ble	of	Con	itents

SimpleBean Makefiles	11
UNIX gnumake Version	11
Windows nmake Version	12
Simple Properties	
Adding a Color Property to SimpleBean	13
Bound Properties	
Implementing Bound Property Support Within a Bean	16
Implementing Bound Property Listeners	18
Bound Properties in the BeanBox	20
Constrained Properties	22
Implementing Constrained Property Support Within a Bean	22
Implementing Constrained Property Listeners	
Constrained Properties in the BeanBox	26
Per Property Constraint	
Manipulating Events in the BeanBox	
Using Introspection to Discover the Events a Bean Fires	29
BeanInfo to Define the Events a Bean Fires	30
Viewing a Bean's Events in the BeanBox	30
Hooking Up Events in the BeanBox	31
Event Adapter Classes	

#### Chapter 5: JDBC

Introduction	
What Does JDBC Do?	2
JDBC is a Low-level API and a Base for Higher-level APIs	3
Two-tier Model	
Three-tier Model	6
JavaSoft Framework	7
Connection	8
Opening a Connection	8
URLs in General Use	9
JDBC URLs	
The "ODBC" Subprotocol	
Sending SQL Statements	
Transactions	
DriverManager	
Keeping Track of Available Drivers	
Establishing a Connection	
Statement Objects	
Creating Statement Objects	
Executing Statements Using Statement Objects	
Statement Completion	
Closing Statement Objects	
Method Execute.	
ResultSet	
Rows and Cursors	
Columns	
NULL Result Values	
Mapping SQL and Java Types	
CHAR, VARCHAR, and LONGVARCHAR	28

Checking the Request Object	14
Setting Data from the Bean to the JSP Page	14
Jseful Methods	14
cripting Elements	
Seneral Rules For Scripting	
Difference Between <%, <%=, and <%!	
Counter Sciptlet	
he Number Guess Game JSP	
ava Program	
Scripting Elements in a JSP File	
Mingling Scripting Elements with Tags	
xecuting Scripting Elements	
landling Exceptions	
dding Error Pages	
Sample Programs	
rror Pages	
Calculator	
Salculator ISP	27

### Chapter 3: Command Syntax

HTML Comment	
Hidden Comment	
Declaration	
Expression	
Scriptlet	
Include Directive	
Page Directive	
Testing The Page Directive.	1
Tadib Directive	1
Taglib Directive. <jsp:forward></jsp:forward>	1
<pre><jsp:rotward> </jsp:rotward></pre>	1
<pre><jsp:include></jsp:include></pre>	1
< sp:plugin>	1
Sp. piugin Plugin	1
<jsp:setproperty></jsp:setproperty>	2
Sp. set Property >	4
<jsp:usebean></jsp:usebean>	2

### Chapter 4: JavaBeans

Purpose and Function	
JavaBeans Concepts	
BeanBox for Generating Applets	
Writing a Simple Bean	

SYS-ED/COMPUTER EDUCATION TECHNIQUES, INC. (JSP - 5.9)

TOC: Page 2

## Create Servlets and JavaServer Pages

Table	of	Contents

BINARY, VARBINARY, and LUNGVARBINARY	. 29
Integers	. 30
Floating Numbers	. 31
DATE, TIME, and TIMESTAMP	. 33
JDBC Types Mapped to Java Types	
Java Types Mapped to JDBC Types	