<u>Usage Notes</u>

This CD contains the Materials Engineering Laboratory Experiment on

X-Ray Diffraction

<u>System requirements:</u>

This software runs on any IBM compatible Pentium PC having WINDOWS98, WINDOWS2000 or WINDOWS XP operating system. It may run on other windows platforms though we have not tested this CD on them.

For good response minimum RAM size of **128 mb** is required.

Please set the video to **800 x 600** with **16** or **32 bit color**.

<u>Installation:</u>

No specific installation is required for running the CD. The Software can be run directly from the CD itself.

The **autorun** feature is enabled so the software runs just by inserting the CD in the CD-ROM drive. In case the autorun feature is disabled you may manually start the software by double clicking on the icon.

The software requires **Flash Player**. In case your system does not have flash player installed, you may install it from the CD. The Flash player setup program is available in the Flash Player folder in the CD. Alternatively you may also download the latest flash player from the site www:macromedia.com for free.
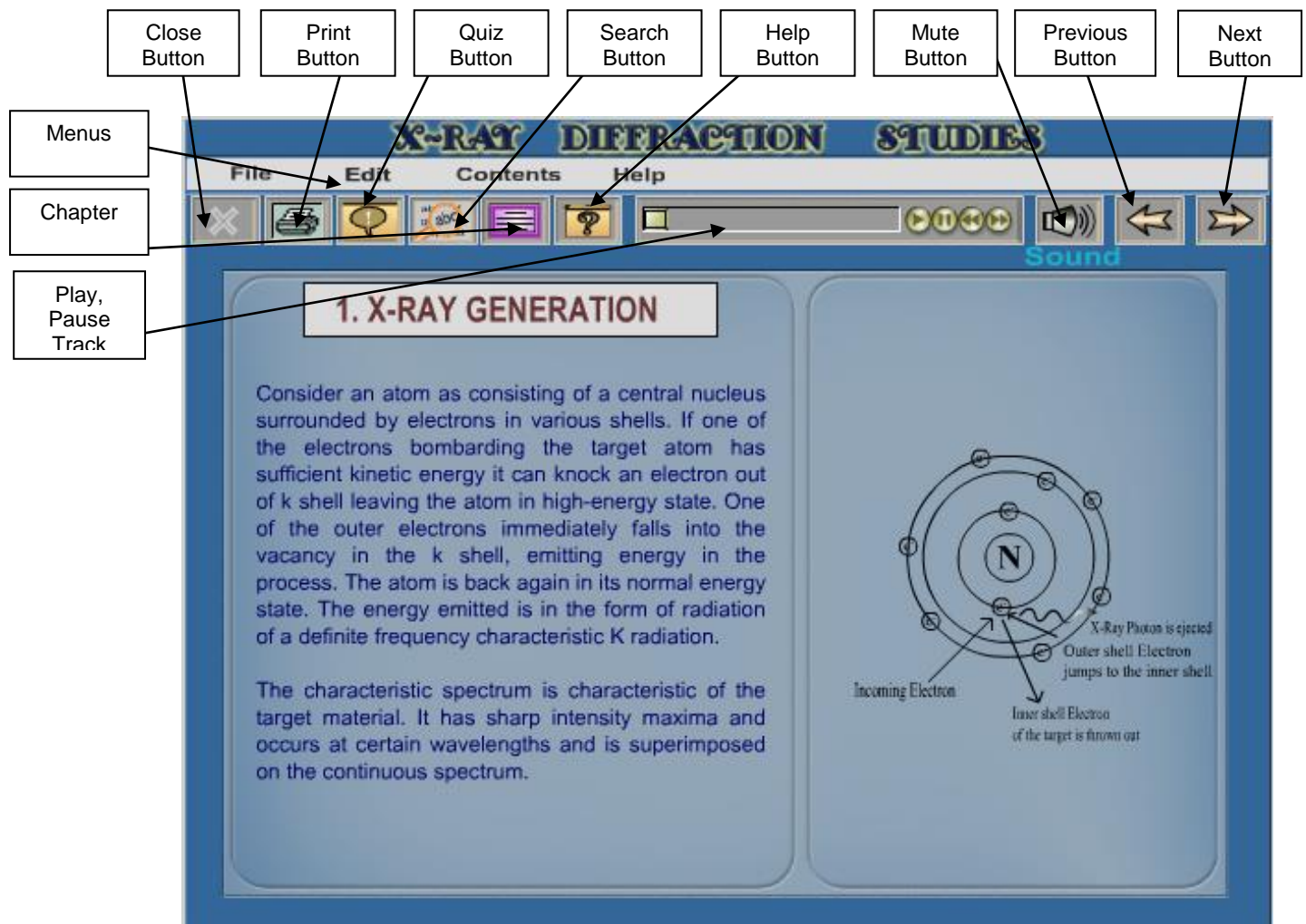
<u>Usage:</u>

The software runs for about **75 minutes**. This time may vary depending on the time the student spends on each scene. Between scenes you are requested to press the next button to move to the next scene.

If you notice clipping at the borders, please adjust the video resolution to 800 x 600. This can be done by right clicking on any vacant area (non icon area) of the desktop and access properties → setting → screen resolution. Move the slider bar as required.

The print out has been adjusted for an inkjet printer. So the printed output may vary a little if a different printer is used. You may adjust the default setting of the printer before starting the application to correct any variations.

The following diagram describes the different buttons and their functionality:

<u>Navigation Buttons</u>:

Please note that few of the buttons are active only when voice over is available.

Menu Bar:

This bar is located at the top just under the title of the experiment. Menu bar contains four options:

File
Edit
Contents
Help

FILE

File option has two sub-options for print and exit. The **PRINT** option sends the screen contents to a printer device. The **EXIT** option exits the application.

EDIT

The **COPY** sub-option under EDIT option allows you to copy the contents of the screen to a text box which then can be edited and sent to different channels like e-mail etc.

CONTENTS

The contents option lists the chapters in the experiments. By selecting any one chapter the user may go to that chapter directly.

HELP

The help option takes you to this manual available online.

Button Bar:

This bar is located at the top under the Menu bar. The buttons are displayed as icons. By pressing on any of the buttons, the user may access its functionality.

EXIT

Exits the application.

PRINT

Sends the screen contents to a printer device.

QUIZ

Takes the user directly to the quiz chapter.

CHAPTERS

Lists the chapters in the experiments. By selecting any one chapter the user may go to that chapter directly.

HELP

The help option takes you to this manual available online.

SLIDER and VOICE CONTROL

These controls help in controlling the voice output, volume, forward and replay of the voice over feature.

MUTE

This is a toggle switch that plays or mutes the voice output.

PREVIOUS

Takes you to the previous scene.

NEXT

Takes you to the next scene. By pressing the PREVIOUS and NEXT buttons in a sequence the user may replay the same scene.