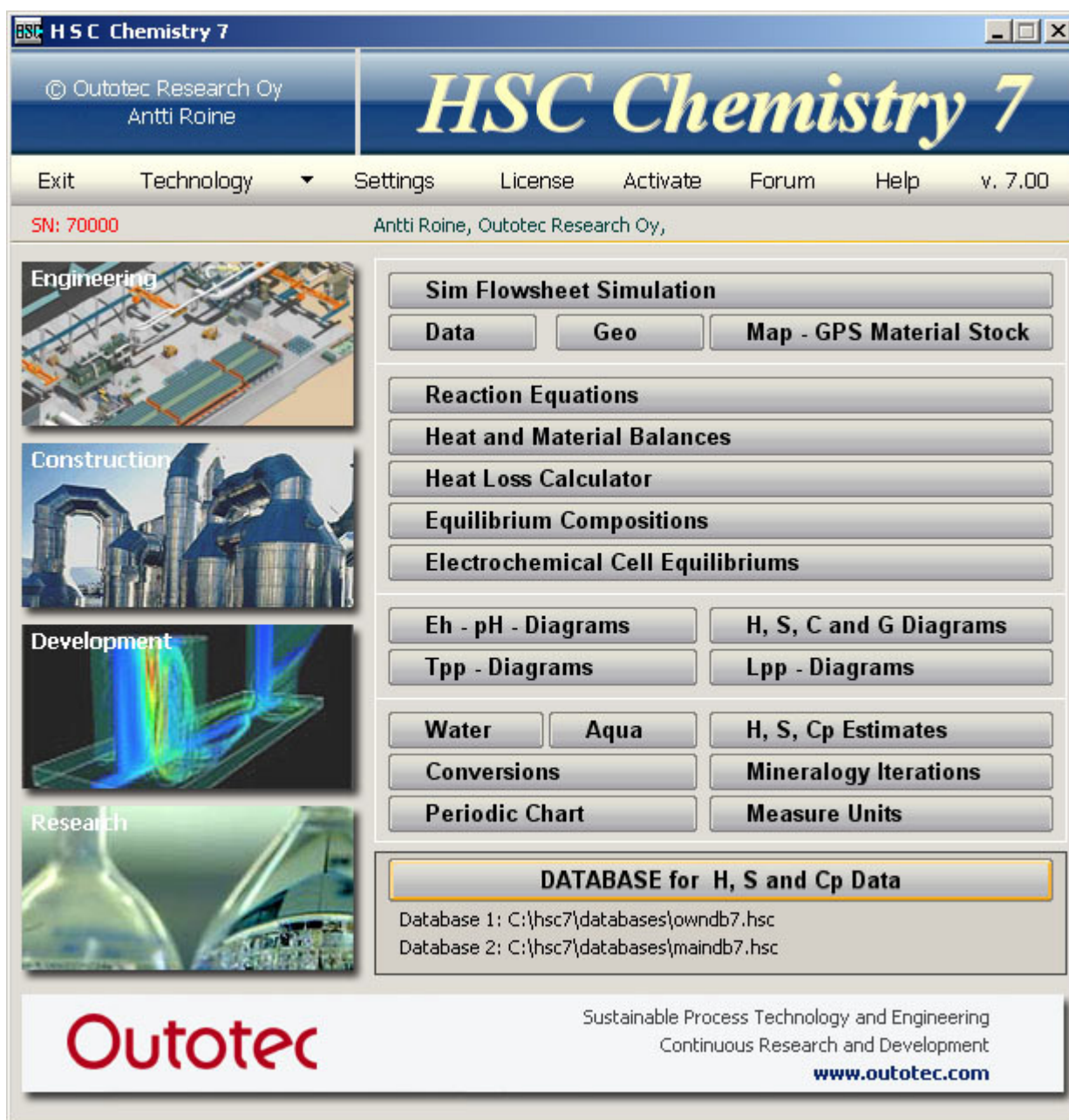


9. OPERATING INSTRUCTIONS

9.1 Starting HSC

The easiest way to start HSC Chemistry is by double-clicking the HSC icon in the Windows Program Manager using the mouse. Within a few seconds the computer loads HSC into the memory and displays the Main Menu of HSC on the screen, see Fig. 1.

9.2 Main Menu of HSC



Antti Roine

August 10, 2006

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Fig. 1. The Main Menu of HSC Chemistry.

The current version of HSC has fourteen calculation modules as well as element and species databases, which can be seen as option buttons in the main menu, see Fig. 1. The option is selected by clicking the button by mouse or using the Tab and Enter keys.

All the calculation options have various printing facilities for tables and diagrams with a formatting possibility. However, some options use the default printer font settings, which can be selected, for example, by pressing **Settings** in the main menu, see Fig. 1. For a description of **Help** see Chapter 9.4.

9.3 Printer Settings

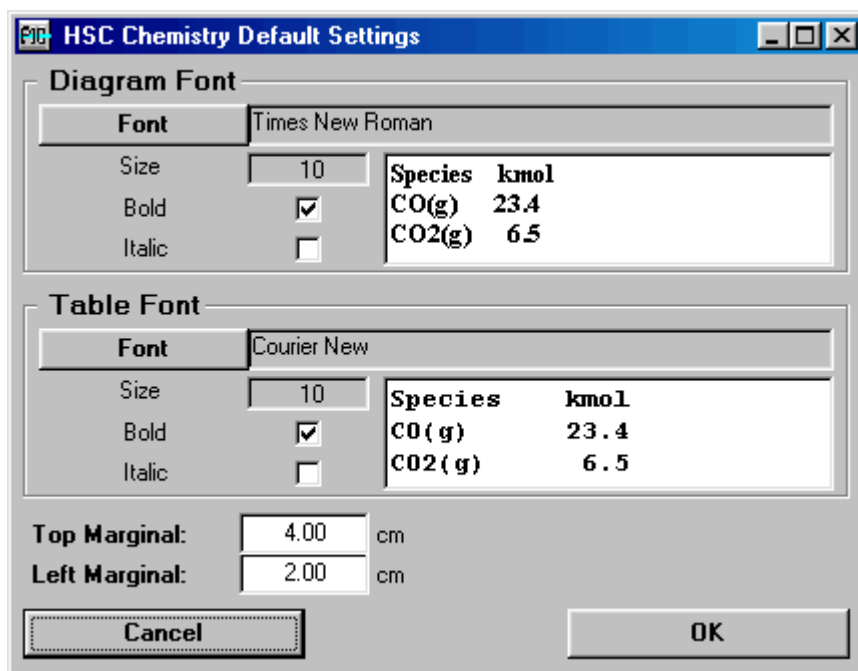


Fig. 2. Selecting fonts for tables and diagrams.

Font settings are available for tables and diagrams separately, however only one font type and size can be selected at a time. After pressing **Settings** in the main menu, Fig. 1, the program shows the HSC Printer Settings Window, Fig. 2. Please use the following steps to select fonts:

1. Press **Font** in the **Table Font** group.
2. Select **Font type** from the list.
A non-proportional font is recommended for the tables, for example: LinePrinter, Courier New and Courier.
1. Select the Font size and style (regular, bold), recommended size is 8 - 12.
2. Press **Font** in the **Diagram Font** group.
3. Select **Font type** from the list, non-proportional and proportional fonts can be used.
4. Select the Font size and style (regular, bold), recommended size is 10 - 12.
5. Change the Top and Left Marginal settings if necessary.

A sample of the font is available in the Settings Window at all times. By pressing the **OK** button the selected fonts and sizes will be saved in the HSC7.INI file in your Windows directory. HSC7.INI can also be edited using for example the Notepad ASCII-editor. HSC always reads the HSC.INI file first when starting, therefore the last specified font settings will be used. See Chapter 7.3. for a description of the HSC7.INI file.

To return to the main menu, click on **Cancel**. The default printer settings can be changed using the **Printers** icon on the **Control Panel**.

9.4 Using HSC Help

The new HSC Help module contains all the information, graphics and formulae of the HSC printed manual along with convenient search, print, edit and save options. The "Help Manual" is divided into 34 chapters all being separate files. These files are in Word 2000 format and located in the HSC7\Help-folder.

Nearly all HSC menus have a **Help** selection that opens the HSCHelp module and displays the corresponding chapter in the manual. Fig. 3 shows the help pages for Chapter 10. *Reaction Equations*.

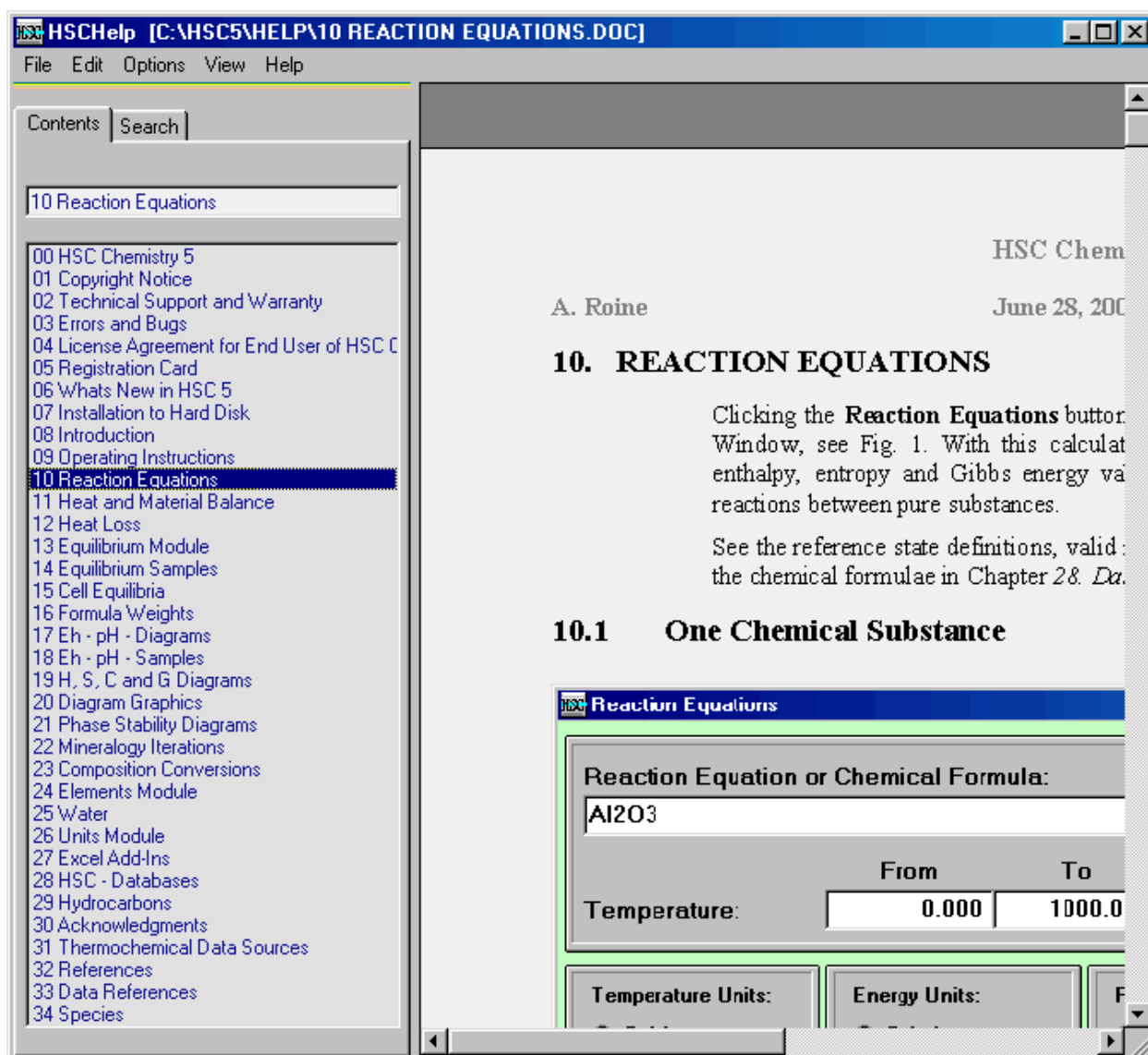


Fig. 3. HSCHelp module with the Reaction Equations module selected, see Fig. 1 in Chapter 10.

The left frame lists all the available help chapters and the right frame displays the current selection. Clicking on a chapter in the left frame will automatically load and show that

chapter in the right frame. To print the current chapter, select **File/Print** from the menu.

It is also possible to search the manual using keywords. Simply select the **Search** tab from the left frame and type the desired keyword in the textbox. By pressing the **List Topics** button all the chapters containing the keyword are displayed. The desired chapter may then be selected and by pressing the **Find Next** button, the next entry containing the keyword is displayed. Fig. 4 shows a search conducted using the keyword “stream”.

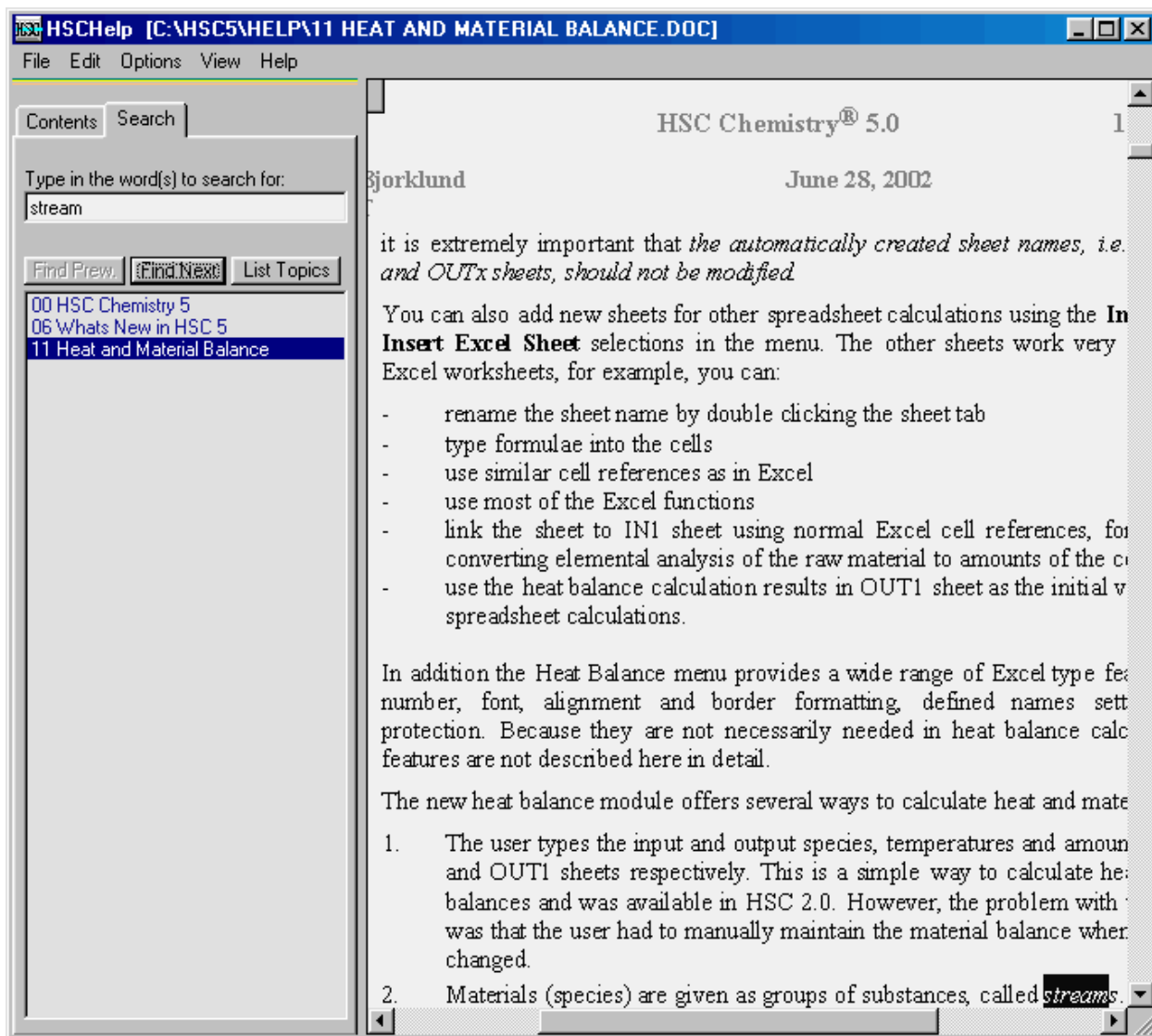


Fig. 4. Search the manual using keywords.

The HSCHelp Editor enables the user to manually view and edit help chapters. Select **Edit/Edit Current Document** from the menu to open the editor for the current chapter. The edit mode can be useful when, for example, printing only a few pages or a selected part of a chapter. Several of the typical word processing options are available in the Help Editor. HSC Help Editor reads and writes Word 2000 files and it supports most of the Word 2000 features but not all, i.e. it is not 100% Word 2000 compatible. Fig. 5 shows the edit mode for Chapter 11. *Heat and Material Balance*.

Note that you may also add your own DOC-files to HSC7\Help-folder and HSCHelp-routine reads these automatically.

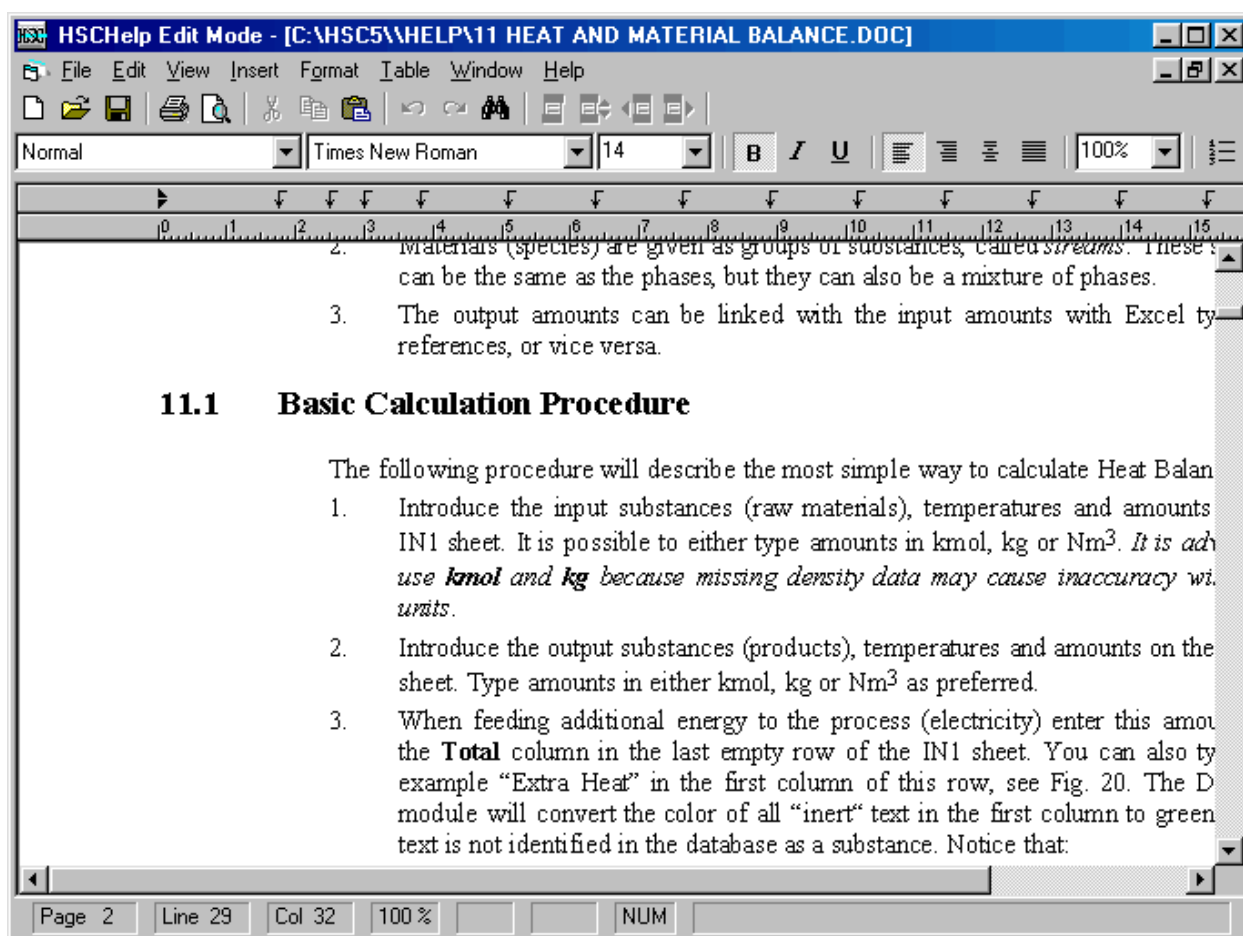


Fig. 5. HSCHelp, Edit Mode.

Antti Roine

August 10, 2006

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