Jonathan Lewin Analysis Book

This is Heading 1 (Shortcut F9)

This is the Jonathan Lewin Analysis Book shell document. This shell uses the style file **jonathan-analysis-style.cst**. Replace this text with the body of your book.

If you modify this document and export it as "Jonathan Lewin Analysis Book.shl" in the **Shells\Books** directory, it will become your new Jonathan Lewin Analysis Book shell.

Appearance of Hyperlinks

Hyperlinks will either be yellow or green, depending on where in the document they appear.

A hyperlink in Body Text looks like this

A hyperlink in Body Text Alt looks like this You get green hyperlinks in alt bullet and numbered items too. The colour of hyperlinks in the various kinds of headers is shown below.

This is Heading 2 (Shortcut F11) (yellow hyperlinks)

The book *An Interactive Introduction to Mathematical Analysis* by Jonathan Lewin uses the style in this shell for the online version.

This is Heading 4 (Shortcut Alt + F11) (like heading 2 but with green hyperlinks

To set text off like this, type the text, then choose Long Quotation from the Section/Body Tag popup list on the Tag toolbar.

This is Heading 3 (Shortcut F12) (yellow hyperlinks)

To center a paragraph, place the insertion point within the paragraph and choose Centered from the Section/Body Tag popup list on the Tag toolbar.

This is Heading 6 (Shortcut Alt + F12)
(like heading 3 but with green hyperlinks)

This is Heading 5 (Shortcut F8) (yellow hyperlinks)

This is a Body Math paragraph. Each time you press the Enter key in Body Math, you enter mathematics mode so that you can perform computations without having to switch to mathematics first. This is convenient for carrying out "scratchpad" computations.

This is Heading 7 (Shortcut Alt + F8) (like heading 5 but with green hyperlinks)

You can apply the logical markup tag *Emphasized,* or ***Strongly Emphasized.***

You can apply the visual markup tags **Bold**, *Italics*, Keyboard Input, Sample Text, and **Typed code**.

You can apply the size tags Smallest, Small, Big, Bigger, and Biggest.

Mathematics and Text

Let H be a Hilbert space, C be a closed bounded convex subset of H, T a nonexpansive self map of C. Suppose that as $n \to \infty$, $a_{n,k} \to 0$ for each k, and $\gamma_n = \sum_{k=0}^{\infty}(a_{n,k+1} - a_{n,k})^+ \to 0$. Then for each x in C, $A_n x = \sum_{k=0}^{\infty} a_{n,k} T^k x$ converges weakly to a fixed point of T.

The numbered equation

$$u_{tt} - \Delta u + u^5 + u|u|^{p-2} = 0 \text{ in } \mathbf{R}^3 \times [0,\infty[\qquad 2.1$$

Numbered equations must be managed manually.

List Environments

You can create numbered, bulleted, and description lists using the Item Tag popup list on the Tag toolbar.

1. List item 1
2. List item 2
    a. A list item under a list item.

    This second paragraph under the same list item was created by typing Backspace at the very beginning of the paragraph. character surrounded by parentheses.

    b. Just another list item under a list item.

        i. Third level list item under a list item.

            a. Fourth and final level of list items allowed.

- Bullet item 1
- Bullet item 2
    - Second level bullet item.
        - Third level bullet item.
            - Fourth (and final) level bullet item.