1 Symbols

1.1 simple

劳仑衣普桑，认至将指点效则机，最你更枝。想极整月正进好志次回总般，段然取向使张规军证回，世市总李率英茄持伴。用阶千样响领交出，器程办管据家元写，名其直金团。化达书据始价算每百青，金低给天济办作照明，取路豆学丽适市确。如提单各样备再成农各政，设头律走克美技说没，体交才路此在杠。响育油命转处他住有，一须通给对非交矿今该，花象更面据压来。与花断第然调，很处已队音，程承明邮。常系单要外史按机速引也书，个此少管品务美直管战，子大标蠢主盯写族般本。农现离门亲事以响规，局观先示从开示，动和导便命复机李，办队呆等需杯。见何细线名必子适取米制近，内信时型系节新候节好当我，队农否志杏空适花。又我具料划每地，对算由那基高放，育天孝。派则指细流金义月无采列，走压看计和眼提问接，作半极水红素支花。果都济素各半走，意红接器长标，等杏近乱共。层题提万任号，信来查段格，农张雨。省着素科程建持色被什，所界走置派农难取眼，并细杆至志本。

$$\leftarrow \tag{1.1}$$

$$\longrightarrow \tag{1.2}$$

$$\not\Rightarrow \tag{1.3}$$

$$\longleftrightarrow \tag{1.4}$$

$$\underset{\text{down}}{\overset{\text{Up}}{\rightleftharpoons}} \tag{1.5}$$

$$\underset{\beta}{\Leftarrow} \tag{1.6}$$

$$\underset{1}{\overset{2}{\Leftarrow}} \tag{1.7}$$

1.2 Complex

Some Examples: $H^1(\Omega) \hookrightarrow L^p(\Omega)$, And further more:

$$H^1(\Omega) \xhookrightarrow{E:t-1=\gamma} L^p(\Omega) \tag{1.8}$$

Some symbols: $\mathbb{C}$, $\mathbb{R}$, $\mathbb{Z}$, $\mathbb{N}$

$$\alpha + \beta \text{ V.S. } \alpha + \beta \tag{1.9}$$

$$\left(\frac{1}{2}\right) \text{ V.S. } (\frac{1}{2}) \tag{1.10}$$

$$\left[\frac{1}{2}\right] \text{ V.S. } [\frac{1}{2}] \tag{1.11}$$

$$\left\{\frac{1}{2}\right\} \text{ V.S. } \{\frac{1}{2}\} \tag{1.12}$$

2 Text

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定义 2.1 (Test THM) Asmooth vector field $\mathbf{v}$ is defined in a domain M if to each point x there is assigned a vector $\mathbf{v}(x) \in T_x M$ attached at that point and depending smoothly on the point x (if a system of m coordinates is chosen, the field is defined by its m components, which are smooth functions of m variables). The vector $\mathbf{v}(x)$ is called the value of the field $\mathbf{v}$ at the point x .

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定义 2.2 (映射连续性) 如果对于某一给定的点 $x_0 \in X$, 映射 T 满足下面的条件: 对于任意给定的 $\varepsilon > 0$, 存在 $\delta > 0$, 使得当 $\rho(x, x_0) < \delta$ 时, 有 $\rho_1(Tx, Tx_0) < \varepsilon$, 则称 T 在点 x_0 处连续. 如果 T 在 X 上的每一点都连续, 则称 T 在 X 上连续, 且称 T 为连续映射.

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