BITLATEXř

t’

201212

ůž TQ028.1
UDCůž 111

BITLATEXř

ť

ş żţ

ţijį į

ťż

ijűś źď

£ ś□

赦 śśżľť

ť 201212

Template for BIT Mater Degree Thesis

Candidate Name	
School or Department	Depart of XXX
Faculty Mentor	Prof.San Zhang
Chair, Thesis Committee	WU Qinghe
Degree Applied	Master
Major	Physics
Degree by	Beijing Insititute of Technology
The Data of Defence	Dec, 2012

BITLATEXř

śś¿l’t’

£ş

ś¿ţ¿ţij¡ţţij¡£źď õ£şąč¿ąčňžţ¡žřžň■ůćśźţ£şčňšžřžňžńś¿ľť ż¡żźźţżùţčźď£źď śţ

čž_____

ž_____ _____ _____

źţ

ś¿¿ľť čźć涨 čň(čž①śčźćšć£żij ijčż②£ąćżÿť ť ćśčť ż③£žšż④£ţ,ÿť żżżż⑤£ńšijš£żĺśč涨 čľąč

čž_____ ţij¡čž_____

ž_____ _____ _____ ž_____ _____ _____

(¿bňÿ(űűţť˛ş čř(£ţć£ů¡ůĺąć£¡žňş£¡žč fńvčň¡Í500—800ňšľ ¡Í1000—1200čż£ijćąćśžŕ¡ąćůńźń õžţąččľ

źť’ž śś¿ľ j řőź

Abstract

this is english abstract

Key Words: BIT, master thesis, XeTeX/LaTeX template

ij

ţ1 ô

ś¿ľť LaTeX ř 壬 č¡žť 汾 [1]õ¡čň >ű śś¿ľť šľąćź 涞 ąůąč

1.1 ř

1.1.1 ř

ř CASthesis–0.1j ţ XǝLaTeX/LaTeX ąčšij Í BibTeX ź£şžś GBT7714 ůij ř Windows ž Linux šźčňÿţij 1.1.2ąč

řęijů bitmaster-xetex.cls ž bitmaster-xetex.cfg ňţ čňÿÿčňšžű.texčÿřť4 ijńť龍

şÿřęţ 小

- XǝLaTeX 洹 ňubuntuš texlive2011žwindows壬 ¿巽 ůĺ£http://blog.163.com/warrior511@126/blog/static/167986512201149848116 58/čż
- řžňţ(.tex, .bib, .cfg)čńś UTF-8čż
- BibTeX źijčšij(ÿ) .bst £ňů¡ś żůžčňşžśGBT7714
- £¡EPS/PDF/JPG/PNGÿţćšź bounding box (.bb)ąč
- ř bitmater-xetex.cls ž bitmaster-xetex.cfg £ňů¡ś řžřč

1.1.2

ř£ťś小

- šij豔 adobeżwindows£ľčż
- TeX XǝLaTeX 菜
- TeX ctex žčż
- TeX ţfontspecž(fontspec.sty)猱 čż
- LaTeX ţ■顑

1.1.3 řšij¿

õ¡řť żžňť1.1čň£ť4żź ť čšćň řÿżąśţž¡£łť ęžðşű ţřąśčňøňűij ůÿœćňźćûôű

[1]ijhttp://blog.sina.com.cn/s/blog_5e16f1770100nsqy.html

ť 1.1 řšij¿

```
l')d' diss.tex
l')d'l'd' README.pdf
l')d'l'd' bitmaster-xetex.cfg
l')d'l'd' bitmaster-xetex.cls
l')d'l'd' body
l'ę   l')d'l'd' abstract.tex
l'ę   l')d'l'd' app1.tex
l'ę   l')d'l'd' app2.tex
l'ę   l')d'l'd' chapter01.tex
l'ę   l')d'l'd' chapter02.tex
l'ę   l')d'l'd' conclusion.tex
l'ę   l')d'l'd' projects.tex
l'ę   l')d'l'd' pub.tex
l'ę   l')d'l'd' resume.tex
l'ę   l')d'l'd' symbol.tex
l'ę   l'ÿl'd'l'd' thanks.tex
l')d'l'd' figures
l'ę   l'ÿl'd'l'd' chap2
l')d'l'd' GBT7714-2005NLang.bst
l')d'l'd' reference
l'ę   l')d'l'd' chap1.bib
l'ę   l'ÿl'd'l'd' chap2.bib
l')d'l'd' run.sh
```

1.1.3.1 ÿ£

ÿ££čňř(ijÿÿčž bitmaster-xetex.cfg, bitmaster-xetex.cls ž GBT7714-2005NLang.bstąč ň".cfg"ž".cls"£čň".bst

řůğ"ž"ÿ£ţňšžč ÿčňżűţ¡řćąč űÿ£şÿżÿž☺

1.1.3.2 demo.tex

demo.tex ţþń"ž"şţč řčň"š"ţ¡ÿž ćÿijąćÿšijč demo.tex ź"include"žň¡4čňť¡č ůčň demo.tex ąč š£ůůšãňijţňůdemo.texč £demo.texť žţţ [2]ąč

ť űň demo.tex ňť""ijűţňřÿšij žň¡4¿čť ęţ —— xelatex, bibtexţňűij demo.tex ňűšżž "ů"ţčňij1.1.4¡č

1.1.3.3 ijbody

š£ů壬 ""ţěżőůč

š£ů(frontmatter)čž(abstract.tex)ąčš£ůň 桢 ţňűij¿ demo.tex "ż■"žňšžţěűşąč

£ů(mainmatter)čž¿ chapter*xxx*.tex ňůĺfş☺

[2] ţűžšţčňšij usepackage úąččňźusepackageť žšźõ¡ţčńšşąč£łůţśLaTeX ţijÿžbůć4ţňĺţşšžč

£ů(backmatter)čžÿ¡ij(app*xx*.tex)čż(thuanks.tex)čżźěű śij(pub.tex)čżÿ(resume.tex)ąčšij ś“ş”ţňšżÿąčţ£řňůĺbčňû demo.tex resume.texąč

1.1.3.4 ij figures

figures ijšţ(PNG/JPG/PDF/EPS)čň¡Í徽 żőůijąč

1.1.3.5 šij¿ij reference

reference ijõ“£”žõijąčšij ¿ňćşććşňżűĺţijij£¿ ij.bibčijBibTeXťę.bibžõ¡ţň demo.bbląč¡ńš £ijťżőůÿôęň£žşbţijňš 4ûąčźij£š¡šijţ2 č

1.1.4

ř XꟻTEX ţ xelatex ţřţąśdemo.texąč šćň£)ąčţęž

```
xelatex -no-pdf --interaction=nonstopmode demo
bibtex demo
xelatex -no-pdf --interaction=nonstopmode demo
xelatex --interaction=nonstopmode demo
```

bibtexţžťš BIBTEX űUTF-8şżş ůňř 休 ąčťţ“żţ¡”ijť£č

ij `--interaction=nonstopmode` šžôşč XꟻTEX žij(şčĺ)čňűťşčšżż[3]ąčů¡ś ãňęşţ¡run.sh(for Linux)žrun.bat(for Windows)ťę čÿź 淶 ţÿMakefilečň£śęfšźżčňÿõ Makefilešźč

żś¿ťęčň LATEX ijţąč

1.2 ţ

£řijűśś¿ľť'šľąć ź 淶 ąůž£ţijř 塁 £ţňž¡šijř ź 淶 śşąč磬 ź 淶 şijijű¡ćijňűřć ijčűżś¿šõ¡śčşčňû ůű¡č

ř“ţě”śÿţňţńş“”ąč demo.tex 趨 ţž

```
\documentclass[cs4size, a4paer, cs4size, oneside, openany]{bitmaster-xetex}
```

źü¡ňřťBITü“śś¿ľť'XX”čňXXśšľż čň塢 5žň¿żüť£łśčňüąč 1čĺľ£łřť'řć-šőĺ1čň2čň3ą■ą■čľ'lśňţ£ů(ąćAbstractąćijţ)ôĺć■čľţěű1č

£ijž GBT7714 ůűšż žÿţčř 壬 ¡BibTeXčň£ ¡śşžGBśţij

[3] xunicodež¿ř ţĺÿÿůžňźź\nobreakspace

1.3 bit-master-thesisř

řbit-master-thesis.clsĺ壬 č

1.3.1

śčňžš¡¡čž

```
\usepackage[top=3.5cm,headheight=25mm,headsep=3mm,footskip=8mm,bottom=2.5cm,left=2.7cm,right
    =2.7cm]{geometry}
```

ãňřťÿ22řãňźżś¿čž

```
\RequirePackage{setspace}
\ setstretch {1.4}
```

1.3.2 ¡ij

涞 čňšťž

```
%% ¡
\CTEXsetup[number={\arabic{chapter}},nameţ={,},
        nameformat={\bfseries\ heiti \centering \zihao{3}},
         titleformat ={\ bfseries \ heiti \zihao{3}},
         afterskip ={30pt}]{chapter}
\CTEXsetup[nameformat={\bfseries\heiti \zihao{4}},
         titleformat ={\ bfseries \ heiti \zihao{4}}]{ section }
\CTEXsetup[nameformat={\bfseries\heiti \zihao{-4}},
         titleformat ={\ bfseries \ heiti \zihao{-4}}]{subsection}
\CTEXsetup[nameformat={\bfseries\zihao{-4}},
         titleformat ={\ bfseries \zihao{-4}}]{subsubsection}
\CTEXsetup[format={\Large\bfseries }]{ section }
\CTEXsetup[beforeskip={10pt}]{chapter}

%% \textsf{ titletoc 趨 ijÿąč}
\RequirePackage{ titletoc }
\ titlecontents {chapter}[0pt]{\vspace{0.25\ baselineskip } \songti \zihao{4}}
    {\ thecontentslabel \quad}{}
    {\hspace{.5em}\ titlerule *{.}\ contentspage}
\ titlecontents { section }[2em]{\songti \zihao{-4}}
    {\ thecontentslabel \quad}{}
    {\hspace{.5em}\ titlerule *{.}\ contentspage}
```

```
\ titlecontents {subsection}[4em]{\songti \zihao{-4}}
    {\ thecontentslabel \quad}{}
    {\hspace{.5em}\ titlerule *{.}\ contentspage}
```

1.3.3 ů

ůčž

ţ

```
%%%%
\newcommand\classification [1]{\def\CAST@value@classification{#1}}
\newcommand\studentnumber[1]{\def\CAST@value@studentnumber{#1}}
\newcommand\confidential[1]{\def\CAST@value@confidential{#1}}
\newcommand\UDC[1]{\def\CAST@value@UDC{#1}}
\newcommand\serialnumber[1]{\def\CAST@value@serialnumber{#1}}
\newcommand\school[1]{\def\CAST@value@school{#1}}
\newcommand\degree[1]{\def\CAST@value@degree{#1}}
\renewcommand\title [2][\CAST@value@title]{%
  \def\CAST@value@title{#2}
  \def\CAST@value@titlemark{\MakeUppercase{#1}}}
\renewcommand\author[1]{\def\CAST@value@author{#1}}
\newcommand\advisor[1]{\def\CAST@value@advisor{#1}}
\newcommand\advisorinstitute [1]{\def\CAST@value@advisorinstitute{#1}}
\newcommand\major[1]{\def\CAST@value@major{#1}}
\newcommand\submitdate[1]{\def\CAST@value@submitdate{#1}}
\newcommand\defenddate[1]{\def\CAST@value@defenddate{#1}}
\newcommand\institute[1]{\def\CAST@value@institute{#1}}
\newcommand\chairman[1]{\def\CAST@value@chairman{#1}}
```

ijť£žţ棬 籾 ţdemo.tex ãž

```
\ classification {TQ028.1}
\UDC{111}
\ title {\LARGE{BIT\LaTeX ř}}
\authorť{}
\ institute żţ{}
\advisor¡{}
\chairman{}
\degreeźd'{}
\majorś {}
\schoolśś¿l'ť'{}
\defenddate{201212}
\studentnumber{2120100277}
```

śúž

\maketitleššůűčż

\makeenglishtitleščż

\makeVerticalTitleš;

\makeDeclareOriginalšąč

ţ2 LaTeX

2.1

2.1.1 źń

ÿň4ąűMath modeąů [1]čž

$$\frac{1}{2}\Delta(f_{ij}f^{ij}) = 2\left(\sum_{i<j}\chi_{ij}(\sigma_i-\sigma_j)^2 + f^{ij}\nabla_j\nabla_i(\Delta f) + \right.$$
$$\left. +\nabla_k f_{ij}\nabla^k f^{ij} + f^{ij}f^k\left[2\nabla_i R_{jk} - \nabla_k R_{ij}\right]\right) \quad (2.1)$$

2.1.1.1 ÿűś

ţÿűśůń£ ůžĺijąćţľţňř ţžąčąűCTeXşčij ąůč diss.tex ţijţž

ť 2.1 š ţ

```
\ makeatletter
\def\ExtendSymbol#1#2#3#4#5{\ext@arrow 0099{\arrowfill@#1#2#3}{#4}{#5}}
\def\RightExtendSymbol#1#2#3#4#5{\ext@arrow 0359{\arrowfill@#1#2#3}{#4}{#5}}
\def\LeftExtendSymbol#1#2#3#4#5{\ext@arrow 6095{\arrowfill@#1#2#3}{#4}{#5}}
\makeatother

\newcommand\myRightarrow[2][]{\RightExtendSymbol{=}{=}{\Rightarrow}{#1}{#2}}
\newcommand\myLeftarrow[2][]{\LeftExtendSymbol{\Leftarrow}{=}{=}{#1}{#2}}
\newcommand\myBioarrow[2][]{\ExtendSymbol{\Leftarrow}{=}{\Rightarrow}{#1}{#2}}
\newcommand\myLongEqual[2][]{\ExtendSymbol{=}{=}{=}{#1}{#2}}
```

ž2.2ţčźčž

ť 2.2 £ ţž

```
\begin{eqnarray}
  f(x) & \myBioarrow{A=B} & B \\
  & \myLongEqual{A=B} & B \\
```

[1] ąűMath modeąůůňűßÿńšáč¿ ijÿÿ4“ř”čňûčňť ź£ť“”řč

```
    & \myLeftarrow[A=B^2]{B=A^2} & B \nonumber \\
    & \myRightarrow{B^2=A^2} & B
\end{eqnarray}
```

$$A \xleftarrow{n=0} B \xrightarrow[LongLongLongLong]{n>0} C$$

$$f(x) \xLeftrightarrow{A=B} B \tag{2.2}$$

$$\xRightarrow{A=B} B \tag{2.3}$$

$$\xLeftarrow[A=B^2]{B=A^2} B$$

$$\xRightarrow{B^2=A^2} B \tag{2.4}$$

磺

$$\begin{aligned} & I(X_3;X_4) - I(X_3;X_4|X_1) - I(X_3;X_4|X_2) \\ \overset{a)}{=\!=} & [I(X_3;X_4) - I(X_3;X_4|X_1)] - I(X_3;X_4|\tilde{X}_2) \qquad (2.5) \\ =\!= & I(X_1;X_3;X_4) - I(X_3;X_4|\tilde{X}_2) \qquad (2.6) \end{aligned}$$

2.1.2 űĺ¿ş

CASthesis.cfg ĺţĺ¿ş algo(燦)čňthm(űĺ)čňlem()čňprop()čňcor()čňdefn(űĺ)čňconj(š)čňexmp()čňrem()čňcase(bthm(űĺ)čňblem(ű)čňbprop(ű)čňbcor(ű)ąč amsmathżźÿproof()ţů¿şąč ÿ“űĺ”ž“”ţč

űĺ 2.1 (űĺ)**.** *ijUt'ÿl£łŕčňa*$_1, \ldots, a_n$*t'徉 fĺU*$\backslash\{a_1, \ldots, a_n\}$*t'£žŕčň* $\gamma a_1, \ldots, a_n$*ř4ţňţńšż¿■źÿa*$_k$*čňšćňôčž*

$$\oint_\gamma f(z)\,\mathrm{d}z = 2\pi\mathrm{i}\sum_{k=1}^{n} \mathrm{I}(\gamma, a_k)\mathrm{Res}(f, a_k) \tag{2.7}$$

γ*ţśňôI*$(\gamma, a_k) = 1$*čňž*

$$\oint_\gamma f(z)\,\mathrm{d}z = 2\pi\mathrm{i}\sum_{k=1}^{n} \mathrm{Res}(f, a_k) \tag{2.8}$$

$\mathrm{Res}(f, a_k)$śƒa_kţčňI(γ, a_k)śγźa$_k$ţąč ¿ÿčňγţa$_k$ţąčγ □ a_kŕčň¿¿ÿčň γÿś¿šża$_k$čň¿¿龍

úĺ2.1ţ

. ň■ą■

ňą■ą■

■ą■ □

ńň¡ť ůdÿ“b”čň¿mathrmř4ąč šćňůżžžřijÿűij\,ţõ¡ąč dşčřąč i,jţěčňÿ“b”čňňżźij壬 `\mathbf{i}`ąči, jşč“”ąč şččň“b”čň磬 πčĺupgreekžčľčňűţeąč šżźčňežπžżţčňÿţűţčąč

2.2 ţ

2.2.1 şÿ

XǝIEX £¡ś PDFąćEPSąćPNGąćJPG ÿţąč

šPNG/JPGţ2.1ąč ÿšćõźšÿ“ś”(table caption)čňûś

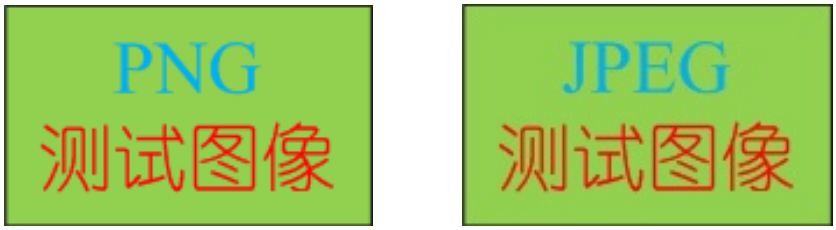

图 2.1
Fig 2.1 English caption

epspdfň2.2ąč EPSžPDFš ßÿžţššćţę subfigure žţč

ÿű LATEX šţijąű LATEX šůąč

(a) EPS Figure (b) PDF Figure

图 2.2 šepsžpdfţ
Fig 2.2 An EPS and PDF demo

2.2.2 şď’śż

2.3ž2.4űijď śźűćň2.4ţżźÿžąč minipageżů¿ş4ÿč

图 2.3 BITõÿőčňš££źš¡Íţźčň985čň211.
Fig 2.3 Joomla! is one of the most powerful Open Source Content Management Systems on the planet.

图 2.4 BITõÿőčňš££źš¡Íţźčň985čň211.
Fig 2.4 Joomla! is one of the most powerful Open Source Content Management Systems on the planet.

2.3 ś

¡şśň2.1ąč

表 2.1 ÿśţ[1]
Table 2.1 A Table

Item		
Animal	Description	Price ($)
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.50
Emu	stuffed	33.33
Armadillo	frozen	8.99

ÿÿÿť threeparttableţ2.2ąč

2.4 šij

šijřÿ¡ąč

[1] 4ąűPublication quality tables in LATEXąů(booktabsžţţ)ąčÿýţňthreeparttableźżąč

表 2.2 ÿţ
Table 2.2 A Table with footnotes

total	20[1]		40		60	
	www	k	www	k	www	k
	4.22 (2.12)	120.0140[2]	333.15	0.0411	444.99	0.1387
	168.6123	10.86	255.37	0.0353	376.14	0.1058
	6.761	0.007	235.37	0.0267	348.66	0.1010

[1] the first note.
[2] the second note.

ť 2.3 ť Google Scholar¡ţňţńšćšźź 涞 ţ.bib

```
@phdthesis{ř2008œńţĺij,
    title ={{œńţĺij}},
   author={ř},
   year={2008},
   school={č¡žť}
}
```

2.4.1 ¡ńšij

řBibTeXť ęijňÿ“”“ś”ůńž [2]ąč šij“”¿referenceijţchap*xx*.bibčňšij¿(şććş)ű Ĺţśčť ť £¿č .bib£šij“¿”čňõijűijž“”ąč £ij“ś”(ÿ)ţ.bstąč.bstű Ĺijòžţijńÿijžţąč ţščňÿţÿij řť ¿řõśGBT7714ůijč

BibTeXţd’şţž BibTeXű.aux(ţť latexţõ¡ţ)£t’£t’ôšijčň ž.bibţčň ¿.bstţijÿžŕţ¡.bblč latex¡ń.bblštčň¿śčňţč ň.bbltžžřitemžň■śžÿşű Ĺţ“ś”ąč

.bib¿ij£ŕščň£googleţ¡ąč ÿ¿[3]şńšijţijş.bibčň fąč Googlečž¡http://scholar.google.cnčň“”ň¡ń“”“ţijB ž¡ż“ţijşBibTeX”l¡ňţFirefoxżţčňş2.3ţ [4]ąč “ź 涞”žź¿

.bibţ“”—— “ř2008œńţĺij”čňřžň ASCII čňBibTeXĺť ę žźaddressś4ţż“ţšž”čż šćňžźlanguage-BibTeXlanguage4ijč ¡ń(ÿąćaddresszlanguage)čňÿť¡ś¿ţ.bibč čňijňűšžąč

ije4 ijč čňBibTeXšćšż¿ůij“”čň4.bstłąłűĹęij GBT7714-2005NLang.bst涨 čž.bibčňţ“language”ň¿żňůč 磬 ÿň¿ijňšęąč

śżbibtext’ęşűĹţ“ś”čň.bblč 墜 £¡ţňń¡ůĹąč latexž¡ńśžš ţč

ť 2.5 .bblżÿżŕž

```
\bibitem[ř(2008)]{bai2008}
```

[2] ţščň£ŕśijitemčň¡ţčţńňBibTeXřčňû鵬 ţ¡ůĹčňč
[3] ÿij¿ SCOPUS, IEEE, OSAţňź¿şžąč
[4] .biblistingsžčňlistingsžţfž řůť žţ¡ůč鵬 ţńň¡ńť ůť ¡.bibźźĺžůPDF¿猱 č

ť 2.4 ÿžśę ţ.bib

```
@phdthesis{bai2008,
    title ={{œńţĺij}},
  author={ř},
  year={2008},
  language={zh},
  address={č},
  school={č¡žť}
}
```

```
\ textsc {ř}.
\newblock {œńţĺij}[D].
\newblock č: č¡žť, 2008.
```

¿ 酨.bst4ůčůś[5]čňůžGBT7714śţ.bstÿďşč ňţśťaćśţij¡čňÿö GBT7714-2005NLang.bsttţčň ź 涨 šij5ž壬 ôśę čňž

```
1 {
2 \zihao{5}
3 \bibliography { reference /chap1, reference /chap2}
4 }
```

¿ 酨.bibřšijśčňű£ij(ÿ)ţ.bstčňś¿ř 帽 ť'ţGBT7714-2005NLang.bstąč

2.4.2 òij

šij¡ijijřžň¡¿ň`\bibliography{chap1,chap2,...}`ąč

òijčň`\upcite{key1,key2,key3...}`£ąřõijśčň[1–3]ąč `\cite{key1,key2,key3...}`õijň[4–6]ąč ň¡ńżšţijžź[1, 4, 6]čňźŕţ[2, 7]čň ż[3, 8, 9]čň [5, 10]čňšľ[11–13]čńś[6]čňijij[14]čňţ[15, 16]ąč

- šijżňšijż
- šij“¿”.bib£¿čň UTF-8 ś šż GBK ś
- šijź language £ż
- šijřšžřśąśůňBibTeXť'4ţč

[5]£ijąűTame The BeaSTąůąč

2.4.3 šij

šij¿.bib£¿ţň£¿ś čňţńżűÿÿ“£ŕ”ţ ßijč JabRefÿžť ÿ Java ţ JRE šč ¿ť’čňžňJabRef£ť’GBKś.bibąč ţńňť’UTF–8ś.bibźşčňöąč .bib õ UTF-8 ś JabRef šż£áč

šijţòżÿ殲 õąłąłEndNoteąč ¡šżňEndNoteśžť’ţţńćű.bibţžáč EndNote£ij.bibčňšžijş.bibčňijş.bbląłąłśżÿżŕţ.bibąč 4čňJabRefś“ţět’£”čňšż¿ÿÿżŕšijfčż űEndNoteôţòijţfčňžfãňżąč £ť’4čňEndNotežWordøžąč

2.5 listings šť

ctexbook ţ listings žčňť’żż4¿■ÿţ 徨 ¡č ÿţřčň£ť’£ť’ąč listings žšť’ňűCť’ listingsžšľť’£ť’ćuźčň¡š¡ţčň£ij listingsžąč

ť’ 2.6 űCť’

```
#include <stdio.h>
#include <unistd.h>
#include <sys/types.h>
#include <sys/wait.h>

int main() {
  pid_t pid;

  switch ((pid = fork())) {
  case -1:
    printf("fork failed\n");
    break;
  case 0:
    /* child calls exec */
    execl("/bin/ls", "ls", "-l", (char*)0);
    printf("execl failed\n");
    break;
  default:
    /* parent uses wait to suspend execution until child finishes */
    wait((int*)0);
    printf("is completed\n");
    break;
  }

  return 0;
}
```

ÿMATLABť’ňÿ daisying ţ

ť 2.7 űMATLABť

```
function paper1
r=0.05;
n=100;
T=1;
X=1;
v0=0.8;
sigma=sqrt(0.08);
 deltat =T/n;
for i=1:n
    t(i)=i* deltat ;
    w(i)=random('norm',0,t(i),1);
end
for i=1:n
    alpha(i)=0.39;
end
for i=1:n
    temp=0;
    for k=1:i
        temp=temp+alpha(k);
    end
    B(i)=exp(r*t(i));
    BB(i)=B(i)*exp(temp*deltat);
    BBB(i)=exp(-r*(T-t(i)));
end
for i=1:n
    s0(i)=X*BBB(i);
    v(i)=v0*exp((r-0.5*sigma^2)*t(i)+sigma*w(i));
    for j=i+1:n
        D=X*BBB(j);
        d1=(log(v(i)/D)+(r+sigma^2/2)*(t(j)-t(i)))/(sigma*sqrt(t(j)-t(i)));
        d2=d1-(sigma*sqrt(t(j)-t(i)));
        ppp(i,j)=D*exp(-r*(t(j)-t(i)))*(1-cdf('normal',d2,0,1))-v(i)*(1-cdf('n
ormal',d1,0,1));
    end
end
for i=1:n
    s1(i)=0;
    for j=i+1:n
        s1(i)=s1(i)+BB(j)^(-1)*alpha(j)* deltat *(X*BBB(j)-B(j)/B(i)*ppp(i,j));
    end
    s2(i)=0;
    for j=1:n
```

```
43            s2(i)=s2(i)+alpha(j);
44        end
45        s2(i)=X*exp(-r*T-s2(i)*deltat);
46        s(i)=BB(i)*(s1(i)+s2(i));
47    end
48    plot(s)
49    hold on;
50    plot(s0);
```

ţ3

ijčšňřĺťżť

řÿţ¡ąč

1. śšżťżť źšżčż
2. ubuntu TEXLIVE2011šňżů¿şń£ čż
3. ś¿řčňšż ąćś¿£ż
4. ś¿ţijř

żď BITř 逞

č

附录 A　řijij

201212 ÿ¿č¡żťţř 壬 řťBITţ涞 čňźź¡Íř 湦

附录 B Maxwell Equations

ţ

$$\mathrm{E} = E_z(r,\theta)\hat{\mathrm{z}} \tag{B–1a}$$
$$\mathrm{H} = H_r(r,\theta))\hat{\mathrm{r}} + H_\theta(r,\theta)\hat{\boldsymbol{\theta}} \tag{B–1b}$$

űű

$$\nabla\times\mathrm{E} = \frac{1}{r}\frac{\partial E_z}{\partial\theta}\hat{\mathrm{r}} - \frac{\partial E_z}{\partial r}\hat{\boldsymbol{\theta}} \tag{B–2a}$$
$$\nabla\times\mathrm{H} = \left[\frac{1}{r}\frac{\partial}{\partial r}(rH_\theta) - \frac{1}{r}\frac{\partial H_r}{\partial\theta}\right]\hat{\mathrm{z}} \tag{B–2b}$$

śčň$\bar{\bar{\mu}}$ňMaxwellů¡ş糎 Eţű

$$\nabla\times\mathrm{E} = \mathrm{i}\omega\mathrm{B} \tag{B–3a}$$
$$\frac{1}{r}\frac{\partial E_z}{\partial\theta}\hat{\mathrm{r}} - \frac{\partial E_z}{\partial r}\hat{\boldsymbol{\theta}} = \mathrm{i}\omega\mu_r H_r\hat{\mathrm{r}} + \mathrm{i}\omega\mu_\theta H_\theta\hat{\boldsymbol{\theta}} \tag{B–3b}$$

Hţ£čž

$$H_r = \frac{1}{\mathrm{i}\omega\mu_r}\frac{1}{r}\frac{\partial E_z}{\partial\theta} \tag{B–4a}$$
$$H_\theta = -\frac{1}{\mathrm{i}\omega\mu_\theta}\frac{\partial E_z}{\partial r} \tag{B–4b}$$

ţńśčň$\bar{\bar{\epsilon}}$ňMaxwellů¡şąHţű

$$\nabla\times\mathrm{H} = -\mathrm{i}\omega\mathrm{D} \tag{B–5a}$$
$$\left[\frac{1}{r}\frac{\partial}{\partial r}(rH_\theta) - \frac{1}{r}\frac{\partial H_r}{\partial\theta}\right]\hat{\mathrm{z}} = -\mathrm{i}\omega\bar{\bar{\epsilon}}\mathrm{E} = -\mathrm{i}\omega\epsilon_z E_z\hat{\mathrm{z}} \tag{B–5b}$$
$$\frac{1}{r}\frac{\partial}{\partial r}(rH_\theta) - \frac{1}{r}\frac{\partial H_r}{\partial\theta} = -\mathrm{i}\omega\epsilon_z E_z \tag{B–5c}$$

õ¡źE_zţĺžřů¡şž

$$\frac{1}{\mu_\theta \epsilon_z}\frac{1}{r}\frac{\partial}{\partial r}\left(r\frac{\partial E_z}{\partial r}\right)+\frac{1}{\mu_r \epsilon_z}\frac{1}{r^2}\frac{\partial^2 E_z}{\partial \theta^2}+\omega^2 E_z = 0 \tag{B–6}$$

参考文献

[1] ť’ňčňčňţő ţň¡ř [M]. śś¿ľ’čžźů9ď’ş磐 2008čő

[2] Chen H, Chan C T. Acoustic cloaking in three dimensions using acoustic metamaterials [J]. Applied Physics Letters, 2007, 91: 183518.

[3] Kim S, Woo N, Yeom H Y, et al. Design and Implementation of Dynamic Process Management for Grid-enabled MPICH [C]. In the 10th European PVM/MPI Users’ Group Conference, Venice, Italy, September 2003.

[4] Joannopoulos J D, Johnson S G, Winn J N. Photonic Crystals: Molding the Flow of Light [M]. Princeton University Press, 2008.

[5] 酘 ñčť [D]čő śś¿ľ’čžź 玓 źňť’čň2005čő

[6] IEEE Std 1363-2000. IEEE Standard Specifications for Public-Key Cryptography [M]. New York: IEEE, 2000.

[7] Chen H, Wu B I, Zhang B, et al. Electromagnetic Wave Interactions with a Metamaterial Cloak [J]. Physical Review Letters, 2007, 99 (6): 63903.

[8] Kocher C, Jaffe J, Jun B. Differential Power Analysis [C] // Wiener M. In Advances in Cryptology (CRYPTO ’99), August 1999: 388–397.

[9] čň壬 ţő ¡¿ń [C]čő In ţ N ť’łččň, čňSeptember 2006čő

[10] Jeyakumar A R. Metamori: A library for Incremental File Checkpointing [D]. Blacksburg: Virgina Tech, 2004.

[11] žő ž [D]čő śś¿ľ’čž廩 ť’čň2005čő

[12] Zadok E. FiST: A System for Stackable File System Code Generation [D]. USA: Computer Science Department, Columbia University, 2001.

[13] řő œńţĺij [D]. ččžč¡żť’čň2008čő

[14] Woo A, Bailey D, Yarrow M, et al. The NAS Parallel Benchmarks 2.0 [R/OL]. 1995. http://www.nasa.org/.

[15] ő şžŕ ţő 2001čő http://www.creader.com/news/20011219/200112190019.html.

[16] Christine M. Plant physiology: plant biology in the Genome Era [J/OL]. Science, 1998, 281: 331–332. http://www.sciencemag.org/cgi/collection/anatmorp.

źěűśij

[1] CHEN H, CHAN C T. Acoustic cloaking in three dimensions using acoustic metamaterials[J]. Applied Physics Letters, 2007, 91:183518.

[2] CHEN H, WU B I, ZHANG B, et al. Electromagnetic Wave Interactions with a Metamaterial Cloak[J]. Physical Review Letters, 2007, 99(6):63903.

4żdˇţř 湦

ÿąćÿją

ÿÿą

ÿ¡żť LATEX řčą

£ł¿ńń