课程编号：123456789　　课程性质：专业必修

武漢大學
WUHAN UNIVERSITY

LaTeX 课程报告模板

副标题

学院：测绘学院
专业：导航工程
姓名：*Eliauk*
学号：*202020212022*
组织：*WHUTUG*

二〇二三年五月二十六日

Contents

Chapter 1
中文测试

§1.1 测试节

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。

1.1.1 测试小节

南山經之首曰[F]山。其首曰招[F]之山，臨于西海之上，多桂，多金玉。有草焉，其狀如韭而青花，其名曰祝余，食之不[F]。有木焉，其狀如[F]而黑理，其花四照，其名曰迷[F]，佩之不迷。有獸焉，其狀如禺而白耳，伏行人走，其名曰[F][F]，食之善走。麗[F]之水出焉，而西流注于海，其中多育沛，佩之無瘕疾。

又東三百里，曰堂庭之山，多[F]木，多白猿，多水玉，多[F]金。

又東三百八十里，曰[F]翼之山，其中多怪獸，水多怪魚，多白玉，多腹虫，多怪蛇，多怪木，不可以上。

又東三百七十里，曰[F]陽之山，其陽多赤金，其陰多白金。有獸焉，其狀如馬而白首，其文如虎而赤尾，其音如[F]，其名曰鹿蜀，佩之宜子孫。怪水出焉，而東流注于憲翼之水。其中多玄龜，其狀如龜而鳥首虺尾，其名曰旋龜，其音如判木，佩之不聾，可以[F]底。

测试小小节

項籍者，下相人也，字羽。初起時，年二十四。其季父項梁，梁父即楚將項燕，[F]秦將王翦所戮者也。項氏世世[F]楚將，封於項，故姓項氏。

項籍少時，學書不成，去學劍，又不成。項梁怒之。籍曰：「書足以記名姓而已。劍一人敵，不足學，學萬人敵。」於是項梁乃教籍兵法，籍大喜，略知其意，又不肯竟學。項梁嘗有[F]陽逮，乃請[F]獄掾曹咎書抵[F]陽獄掾司馬欣，以故事得已。項梁殺人，與籍避仇於[F]中。[F]中賢士大夫皆出項梁下。每[F]

中有大繇役及喪，項梁常Ⓕ主辦，陰以兵法部勒賓客及子弟，以是知其能。秦始皇帝游會稽，渡浙江，梁與籍俱觀。籍曰：「彼可取而代也。」梁掩其口，曰：「毋妄言，族矣！」梁以此奇籍。籍長八尺餘，力能扛鼎，才氣過人，雖Ⓕ中子弟皆已憚籍矣。

秦二世元年七月，陳涉等起大澤中。其九月，會稽守通謂梁曰：「江西皆反，此亦天亡秦之時也。吾聞先即制人，後則Ⓕ人所制。吾欲發兵，使公及桓楚將。」是時桓楚亡在澤中。梁曰：「桓楚亡，人莫知其處，獨籍知之耳。」梁乃出，誡籍持劍居外待。梁復入，與守坐，曰：「請召籍，使受命召桓楚。」守曰：「諾。」梁召籍入。須臾，梁Ⓕ籍曰：「可行矣！」於是籍遂拔劍斬守頭。項梁持守頭，佩其印Ⓕ。門下大驚，擾亂，籍所擊殺數十百人。一府中皆Ⓕ伏，莫敢起。梁乃召故所知豪吏，Ⓕ以所Ⓕ起大事，遂舉Ⓕ中兵。使人收下縣，得精兵八千人。梁部署Ⓕ中豪ⒻⒻ校尉、候、司馬。有一人不得用，自言於梁。梁曰：「前時某喪使公主某事，不能辦，以此不任用公。」Ⓕ乃皆伏。於是梁Ⓕ會稽守，籍Ⓕ裨將，徇下縣。

Chapter 2
英文测试

§2.1 测试节

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

2.1.1 测试小节

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. In hac habitasse platea dictumst. Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet nisl. Vivamus quis tortor vitae risus porta vehicula.

Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam pellentesque, augue quis sagittis posuere, turpis lacus congue quam, in hendrerit risus eros eget felis. Maecenas eget erat in sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi. Sed a turpis eu lacus commodo facilisis. Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis dui, et vehicula libero dui cursus dui. Mauris tempor ligula sed lacus. Duis cursus enim ut augue. Cras ac magna. Cras nulla. Nulla egestas. Curabitur a leo. Quisque egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur consectetuer.

测试小小节

Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus, vehicula eu, lacus.

Chapter 3
代码框测试

§3.1 测试节

跳秒表。

```
public static class LeapSeconds
{
    public readonly static Dictionary<DateTime, int> GpsTimeTable = new()
    {
        {new(2016, 12, 31, 23, 59, 59), 18},
        {new(2015, 6, 30, 23, 59, 59), 17},
        {new(2012, 6, 30, 23, 59, 59), 16},
        {new(2008, 12, 31, 23, 59, 59), 15},
        {new(2005, 12, 31, 23, 59, 59), 14},
        {new(1998, 12, 31, 23, 59, 59), 13},
        {new(1997, 6, 30, 23, 59, 59), 12},
        {new(1995, 12, 31, 23, 59, 59), 11},
        {new(1994, 6, 30, 23, 59, 59), 10},
        {new(1993, 6, 30, 23, 59, 59), 9},
        {new(1992, 6, 30, 23, 59, 59), 8},
        {new(1990, 12, 31, 23, 59, 59), 7},
        {new(1989, 12, 31, 23, 59, 59), 6},
        {new(1987, 12, 31, 23, 59, 59), 5},
        {new(1985, 6, 30, 23, 59, 59), 4},
        {new(1983, 6, 30, 23, 59, 59), 3},
        {new(1982, 6, 30, 23, 59, 59), 2},
        {new(1981, 6, 30, 23, 59, 59), 1},
    };
}
```

3.1

```
public static double Solve(double initialValue, double tolerance, int maxIterationNum,
    ↪ Func<double, double> funtion, Func<double, double> derivativeFunction)
{
    double xPre = initialValue;
    double xCur = initialValue - funtion(initialValue) /
        ↪ derivativeFunction(initialValue);
```

3.2

```
    int count = 0;
    while (System.Math.Abs(xCur - xPre) > tolerance)
    {
        xPre = xCur;
        count++;
        xCur -= funtion(xCur) / derivativeFunction(xCur);
        if (count > maxIterationNum)
            break;
    }
    return xCur;
}
```

3.2

大地椭球。

```
template<CoordinateSystem T>
struct Elliposid;

template<>
struct Elliposid<CoordinateSystem::CGCS2000>
{
    constexpr static double semi_minor     = 6356752.3141403558;
    constexpr static double semi_major     = 6378137;
    constexpr static double oblateness     = 1.0 / 298.2572221010042;
    constexpr static double eccentricity_1 = 0.081819191042811;
    constexpr static double eccentricity_2 = 0.0820944381519236;
};
```

```
template<class T>
class ErrorDetector;

template<>
class ErrorDetector<Range>
{
public:
    ErrorDetector(): preRange() { }
    void ErrorDetect(Range& curRange);
private:
    Range preRange;
};
```

References

[1] 江泽民. 能源发展趋势及主要节能措施[J]. 上海交通大学学报, 1989, 23(3): 1-16.

[2] KUHN R L. The Man who Changed China: The Life and Legacy of Jiang Zemin[M]. Crown Publishers, 2004.

[3] 江泽民. 新时期我国信息技术产业的发展[J]. 上海交通大学学报, 2008, 42(10): 1589-1607.

[4] 张昆, 冯立群, 余昌钰, 等. 机器人柔性手腕的球面齿轮设计研究[J]. 清华大学学报: 自然科学版, 1994, 34(2): 1-7.

[5] 竺可桢. 物理学论[M]. 北京: 科学出版社, 1973: 56-60.

[6] DUPONT B. Bone marrow transplantation in severe combined immunodeficiency with an unrelated MLC compatible donor[C]//WHITE H J, SMITH R. Proceedings of the third annual meeting of the International Society for Experimental Hematology. Houston: International Society for Experimental Hematology, 1974: 44-46.

[7] 郑开青. 通讯系统模拟及软件[D]. 北京: 清华大学无线电系, 1987.

[8] 姜锡洲. 一种温热外敷药制备方案: 中国, 88105607.3: [P]. 1980-07-26.

[9] 中华人民共和国国家技术监督局. GB3100-3102. 中华人民共和国国家标准-量与单位[S]. 北京: 中国标准出版社, 1994.

[10] MERKT F, MACKENZIE S R, SOFTLEY T P. Rotational Autoionization Dynamics in High Rydberg States of Nitrogen[J]. J Chem Phys, 1995, 103: 4509-4518.

[11] MELLINGER A, VIDAL C R, JUNGEN C. Laser reduced fluorescence study of the carbon monoxide nd triplet Rydberg series - Experimental results and multichannel quantum defect analysis[J]. J Chem Phys, 1996, 104: 8913-8921.

[12] BIXON M, JORTNER J. The dynamics of predissociating high Rydberg states of NO[J]. J Chem Phys, 1996, 105: 1363-1382.

[13] 马辉, 李俭, 刘耀明, 等. 利用 REMPI 方法测量 BaF 高里德堡系列光谱[J]. 化学物理学报, 1995, 8: 308-311.

[14] CARLSON N W, TAYLOR A J, JONES K M, et al. Two-step polarization-labeling spectroscopy of excited states of Na2[J]. Phys Rev A, 1981, 24: 822-834.

[15] TAYLOR A J, JONES K M, SCHAWLOW A L. Scanning pulsed-polarization spectrometer applied to Na2[J]. J Opt Soc Am, 1983, 73: 994-998.

[16] TAYLOR A J, JONES K M, SCHAWLOW A L. A study of the excited 1Σg+ states in Na2[J]. Opt Commun, 1981, 39: 47-50.

[17] SHIMIZU K, SHIMIZU F. Laser induced fluorescence spectra of the a 3Πu–X 1Σg+ band of Na2 by molecular beam[J]. J Chem Phys, 1983, 78: 1126-1131.

[18] ATKINSON J B, BECKER J, DEMTRÖDER W. Experimental observation of the a 3Πu state of Na2[J]. Chem Phys Lett, 1982, 87: 92-97.

[19] KUSCH P, HESSEL M M. Perturbations in the A 1Σu+ state of Na2[J]. J Chem Phys, 1975, 63: 4087-4088.

[20] 广西壮族自治区林业厅. 广西自然保护区[M]. 北京: 中国林业出版社, 1993.

[21] 霍斯尼. 谷物科学与工艺学原理[M]. 李庆龙, 译. 2 版. 北京: 中国食品出版社, 1989: 15-20.

[22] 王夫之. 宋论[M]. 刻本. 金陵: 曾氏, 1865 (清同治四年).

[23] 赵耀东. 新时代的工业工程师[M/OL]. 台北: 天下文化出版社, 1998 [1998-09-26]. http://www.ie.nthu.edu.tw/info/ie.newie.htm.

[24] 全国信息与文献工作标准化技术委员会出版物格式分委员会. GB/T 12450-2001 图书书名页[S]. 北京: 中国标准出版社, 2002: 1.

[25] 全国出版专业职业资格考试办公室. 全国出版专业职业资格考试辅导教材: 出版专业理论与实务 • 中级[M]. 2014 版. 上海: 上海辞书出版社, 2004: 299-307.

[26] World Health Organization. Factors Regulating the Immune Response: Report of WHO Scientific Group[R]. Geneva: WHO, 1970.

[27] PEEBLES P Z, Jr. Probability, Random Variables, and Random Signal Principles[M]. 4th ed. New York: McGraw Hill, 2001.

[28] 白书农. 植物开花研究[G]//李承森. 植物科学进展. 北京: 高等教育出版社, 1998: 146-163.

[29] WEINSTEIN L, SWERTZ M N. Pathogenic Properties of Invading Microorganism[G]// SODEMAN W A, Jr, SODEMAN W A. Pathologic physiology: mechanisms of disease. Philadelphia: Saunders, 1974: 745-772.

[30] 韩吉人. 论职工教育的特点[C]//中国职工教育研究会. 职工教育研究论文集. 北京: 人民教育出版社, 1985: 90-99.

[31] 中国地质学会. 地质评论[J]. 1936, 1(1)-. 北京: 地质出版社, 1936.

[32] 中国图书馆学会. 图书馆学通讯[J]. 1957(1)-1990(-4). 北京: 北京图书馆, 1957-1990.

[33] American Association for the Advancement of Science. Science[J]. 1883, 1(1)-. Washington, D.C.: American Association for the Advancement of Science, 1883.

[34] 傅刚, 赵承, 李佳路. 大风沙过后的思考[N/OL]. 北京青年报, 2000-04-12(14) [2002-03-06]. http://www.bjyouth.com.cn/Bqb/20000412/B/4216%5ED0412B1401.htm.

[35] 萧钰. 出版业信息化迈入快车道[EB/OL]. (2001-12-19) [2002-04-15]. http://www.creader.com/news/20011219/200112190019.htm.

[36] Online Computer Library Center, Inc. About OCLC: History of Cooperation[EB/OL]. 2000 [2000-01-08]. http://www.oclc.org/about/cooperation.en.htm.

[37] Scitor Corporation. Project scheduler[CP/DK]. Sunnyvale, Calif.: Scitor Corporation, 1983.