

**Harbin Institute of Technology**

**课程设计说明书（论文）**

课程名称：自动控制原理

设计题目：某仿真装置中定向镜系统（方位轴）的设计与仿真

院 系：信息与电气工程学院

班 级：自动化三班

设 计 者：朱明菲

学 号：140210329

指导教师：黄海滨 王晓丽

设计时间：2017.7.3-2017.7.15

哈尔滨工业大学（威海）

**哈尔滨工业大学（威海）课程设计任务书**

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| 姓 名：朱明菲 院 （系）：信息与电气工程学院  专 业：自动化 班 号：1402103  任务起至日期： 2017.7.3-2017.7.15 |
| 课程设计题目：某仿真装置中定向镜系统（方位轴） 编号7 |
| 某仿真显示臂俯仰系统性能指标给定的技术参数如下：   1. 最大角速度： 2. 最大角加速度： 3. 动态跟踪误差：<0.6mrad 4. 总误差： 5. ：   已知控制系统框图如下  图片包含 文字  已生成高可信度的说明  ；  电机力矩灵敏度 ; |
| 工作量：人工设计利用半对数坐标值手工绘制系统校正前后及校正装置的Bode图，并确定出校正的装置传递函数。计算机辅助设计用MATLAB进行仿真调试。确定校正装置的电路形式及参数，撰写实验报告。 |

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| 工作计划安排：1、根据所给参数，求出传递函数，求出相应指标，确定矫正方法。  2、逐步校正，最终达到设计要求。  3、设计电路图。  4、撰写实验报告。 |
| 同组设计者及分工：无 |
| 指导教师签字\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    年 月 日    教研室主任意见：  教研室主任签字\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  年 月 日 |

**\*注：此任务书由课程设计指导教师填写**

一．数据的计算性能指标

首先，根据系统框图，确定采用前馈-反馈控制。

系统明显为高阶系统，故利用经验公式





以及Ka>

解得Mr=1.225， Ka=11633

![图片包含 文字

已生成高可信度的说明](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDoRXhpZgAATU0AKgAAAAgABQESAAMAAAABAAEAAAE7AAIAAAAKAAAIVodpAAQAAAABAAAIYJydAAEAAAAIAAAQ2OocAAcAAAgMAAAASgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOacseaYjumjngAABZADAAIAAAAUAAAQrpAEAAIAAAAUAAAQwpKRAAIAAAADNTkAAJKSAAIAAAADNTkAAOocAAcAAAgMAAAIogAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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FVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD94rGya+a4Y3F0myZ0AWSrH9hel1f/APf6vkv9tvxP4f8Ahxf/ABP8Va1pel6tfeG/BtrPpi39j9qjjne6v9n/AKBXlX7Pv7bXwH8bX914f8b+BdD8O+JbCHzJLi00t7/T5/8AbDxx+Yn/AG0jSu+jluIq4aWKh8ETz62ZYaliYYWcvfmfoX/YX/T5qH/f6j+wv+nzUP8Av9XyV4l8GeCbHxH4E1rw7pOl2sd54h0ee1uLaDy/MjkuoNle1+A/j7q3if8Aa0+JHwzvvD+nWdv4N0DQvEWl6rBqrzSatBqcmpwFJ4GgT7M8U+kzj5JJxIjxvmM5SuA9A9K/sL/p81D/AL/Uf2F/0+ah/wB/q0KKAM/+wv8Ap81D/v8AUf2F/wBPmof9/q0KKAM/+wv+nzUP+/1H9hf9Pmof9/qw/GPxN0bwF4m8HaTq2oC01Dxtqcmj6NAYZJPtt2ljdXzplEIjxa2V1JufYn7vZne6A9ZQBn/2F/0+ah/3+o/sL/p81D/v9WhRQBn/ANhf9Pmof9/qP7C/6fNQ/wC/1aFFAGf/AGF/0+ah/wB/qP7C/wCnzUP+/wBWhRQBn/2F/wBPmof9/qP7C/6fNQ/7/VoUUAZ/9hf9Pmof9/qP7C/6fNQ/7/VoUUAZ/wDYX/T5qH/f6j+wv+nzUP8Av9WhRQBn/wBhf9Pmof8Af6j+wv8Ap81D/v8AVoUUAZ/9hf8AT5qH/f6j+wv+nzUP+/1aFFAGf/YX/T5qH/f6j+wv+nzUP+/1aFFAGf8A2F/0+ah/3+o/sL/p81D/AL/VoUUAZ/8AYX/T5qH/AH+o/sL/AKfNQ/7/AFaFFAGf/YX/AE+ah/3+o/sL/p81D/v9WhRQBn/2F/0+ah/3+o/sL/p81D/v9WhRQBn/ANhf9Pmof9/qP7C/6fNQ/wC/1aFFAGf/AGF/0+ah/wB/qP7C/wCnzUP+/wBWhRQBn/2F/wBPmof9/qP7C/6fNQ/7/VoUUAZ/9hf9Pmof9/qP7C/6fNQ/7/VoUUAZ/wDYX/T5qH/f6j+wv+nzUP8Av9WhRQBn/wBhf9Pmof8Af6j+wv8Ap81D/v8AVoUUAZ/9hf8AT5qH/f6j+wv+nzUP+/1aFFAGf/YX/T5qH/f6j+wv+nzUP+/1aFFAGf8A2F/0+ah/3+o/sL/p81D/AL/VoUUAZ/8AYX/T5qH/AH+o/sL/AKfNQ/7/AFaFFAGf/YX/AE+ah/3+o/sL/p81D/v9WhRQBn/2F/0+ah/3+o/sL/p81D/v9WhRQBn/ANhf9Pmof9/qP7C/6fNQ/wC/1aFFAGf/AGF/0+ah/wB/qP7C/wCnzUP+/wBWhRQBn/2F/wBPmof9/qP7C/6fNQ/7/VoUUAZ/9hf9Pmof9/qP7C/6fNQ/7/VoUUAZ/wDYX/T5qH/f6j+wv+nzUP8Av9WhRQBn/wBhf9Pmof8Af6j+wv8Ap81D/v8AVoUUAZ/9hf8AT5qH/f6j+wv+nzUP+/1aFFAGf/YX/T5qH/f6j+wv+nzUP+/1aFFAGf8A2F/0+ah/3+o/sL/p81D/AL/VoUUAZ/8AYX/T5qH/AH+o/sL/AKfNQ/7/AFaFFAGf/YX/AE+ah/3+o/sL/p81D/v9WhRQBn/2F/0+ah/3+o/sL/p81D/v9WhRQBn/ANhf9Pmof9/qP7C/6fNQ/wC/1aFFAGf/AGF/0+ah/wB/qP7C/wCnzUP+/wBWhRQBn/2F/wBPmof9/qP7C/6fNQ/7/VoUUAZ/9hf9Pmof9/qP7C/6fNQ/7/VoUUAZ/wDYX/T5qH/f6j+wv+nzUP8Av9WhRQBn/wBhf9Pmof8Af6j+wv8Ap81D/v8AVoUUAZ/9hf8AT5qH/f6j+wv+nzUP+/1aFFAGf/YX/T5qH/f6j+wv+nzUP+/1aFFAGf8A2F/0+ah/3+o/sL/p81D/AL/VoUUAZ/8AYX/T5qH/AH+o/sL/AKfNQ/7/AFaFFAGf/YX/AE+ah/3+o/sL/p81D/v9WhRQBn/2F/0+ah/3+o/sL/p81D/v9WhRQBn/ANhf9Pmof9/qP7C/6fNQ/wC/1aFFAGf/AGF/0+ah/wB/qP7C/wCnzUP+/wBWhRQBn/2F/wBPmof9/qP7C/6fNQ/7/VoUUAZ/9hf9Pmof9/qP7C/6fNQ/7/VoUUAZ/wDYX/T5qH/f6j+wv+nzUP8Av9WhRQBn/wBhf9Pmof8Af6j+wv8Ap81D/v8AVoUUAZ/9hf8AT5qH/f6itCigD5L+NnhLTfjX+0D8Vvh3rFxc2eneLPhzY2s8tt/rIkkvtTj3pXzh+3XYeGP+Cdn7MnhzTfhpNb+C4/EGtpour63Mkd3eXlq9rPI6PPP5n/LREr6n+M/7HvjL4kftDXvj7wf8RtK8Jy3GjQaBd2d54Y/tbzBBdXc6SB/tUJT/AI+un+xXP69+wL8V/FNv5OofGXwXfR7/ADNk3w23/wDuRrPFutVws8LTnyc51ZZUwuHzCGNr0efkPjf9hH9pfW/i74J0aLVPEP8Awkdj4a+JfhrQtLufLgTy4PtVh8nyJ/t16d/wUH0S+8c/tf8AxfmvPA/jDxr8PdB8GfD+61zwr/wrDW9Ys/iLJpfiXUb24061uo4TBcyQ2+pQzJbRnZNdG3FxPHZWmqQyezaP/wAE1PHDeKPC8mpfFLwtNpGg+I9O8RT2Om+AzYPdvZXSThPM/tB9m/ZsL7HOK+zC4Vc/hxWGAw86OHjRnPnN83xlPF4yeIoQ5IS+yfDcHhbwL8BP2jvHWsWXwR8Q33w5+OPws8I+H9J8PeH/AIb3Dwa9NYnXYJNO1G18hINMxYXuk2o/tj7LAkeI2dI7WfyfkX4x/Crxt42/4JofCOx0v4T/ABAh8feC/gHp9l4X1D/hW9/qXivTvEum2U6T2+mm8CQeF7i0uLW2mkvTB9r1aGeCPT3e6sbSQftEDmius84/Pi8+B/wZ+PX/AAUQ+MXjLxx8Fte8T+Gbz4WeFNa/4qL4VaxNpesX1s+ryXEhtZrLyL3WILG80uBE8uS+jSSe1h2FLqBPnbxX8HvE/wC298GvhV4X8VfDXxh8VvEC/A3w3pXj2w8T+FrW+8XeEbmb+0rK9vtPHiLUNK/snUrqa2u/+Jin9pG6fTrWR4IY7W2e+/ZCvNvjl+yl8Lf2npNLPxK+GvgH4hDRFmOnjxN4ftdW+wGby/M8nz438vf5ce/Z18tPQUAfKP7WP7OHwL/aC8D/ALMPxg074OeD/H3wy0G5srmSex+HX9s3UfhCfw5q8em2sOmR2r3clol9e6a6WscD+QSJmjRIZHTf8RwaT8MP2tfiV4s8SfBfxhqWmftBfDbwvo9z4e07wcmuv4g1a1fXI73TtXmtRNYQSC1v9MtfPv7pLR04Fw8FvI8f2xRQB87f8EsLW+0//gmh8A9OvtL13w/qnh/wFomjalput6TdaVf2N1ZWUdpPFJBcpHImJoXAfZtkQB0Lo6OfomiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA+cZf2ypvPkeP4U/HqHzH3lE8I/wD26m/8Nj3X/RLvj/8A+Ep/9vr6O2UbKPdA+cf+Gx7r/ol37QH/AISn/wBvo/4bHuv+iXfH/wD8JT/7fX0dso2Ue6B84/8ADY91/wBEu/aA/wDCU/8At9H/AA2Pdf8ARLv2gP8AwlP/ALfX0dso2Ue6B84/8Nj3X/RLv2gP/CU/+30f8Nj3X/RLv2gP/CU/+319HbKNlHugfOP/AA2Pdf8ARLv2gP8AwlP/ALfR/wANj3X/AES79oD/AMJT/wC319HbKNlHugfOP/DY91/0S79oD/wlP/t9H/DY91/0S79oD/wlP/t9fR2yjZR7oHzj/wANj3X/AES79oD/AMJT/wC30f8ADY91/wBEu/aA/wDCU/8At9fR2yjZR7oHzj/w2Pdf9Eu/aA/8JT/7fR/w2Pdf9Eu/aA/8JT/7fX0dso2Ue6B84/8ADY91/wBEu/aA/wDCU/8At9H/AA2Pdf8ARLv2gP8AwlP/ALfX0dso2Ue6B84/8Nj3X/RLv2gP/CU/+30f8Nj3X/RLv2gP/CU/+319HbKNlHugfOP/AA2Pdf8ARLv2gP8AwlP/ALfR/wANj3X/AES79oD/AMJT/wC319HbKNlHugfOP/DY91/0S79oD/wlP/t9H/DY91/0S79oD/wlP/t9fR2yjZR7oHzj/wANj3X/AES79oD/AMJT/wC30f8ADY91/wBEu/aA/wDCU/8At9fR2yjZR7oHzj/w2Pdf9Eu/aA/8JT/7fR/w2Pdf9Eu/aA/8JT/7fX0dso2Ue6B84/8ADY91/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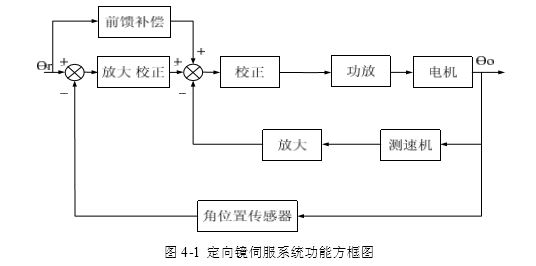
观察传递框图，系统存在双闭环，查阅参考资料可知，定向镜伺服系统要求控制精度高，响应速度快，故采用内环为速度环，外环为位置环的双闭环结构。

主要特点如下

(1) 采用测速发电机作为并联校正元件构成速度闭环，以降低控制对象的时间常数，提高系统伺服刚度，消除参数不稳定及非线性的影响；

(2) 采用滞后校正提高系统的开环增益，降低稳态误差；

(3) 采用前馈控制减小系统稳态误差，拓宽系统通频带



根据控制方案，采用双重闭环结构，按照多回路控制系统 的设计要求，从内环到外环进行设计。

速度环设计：

由于速度环有三个参数不确定，在与老师讨论后，决定采用先固定其中两个调节另外一个的方法。