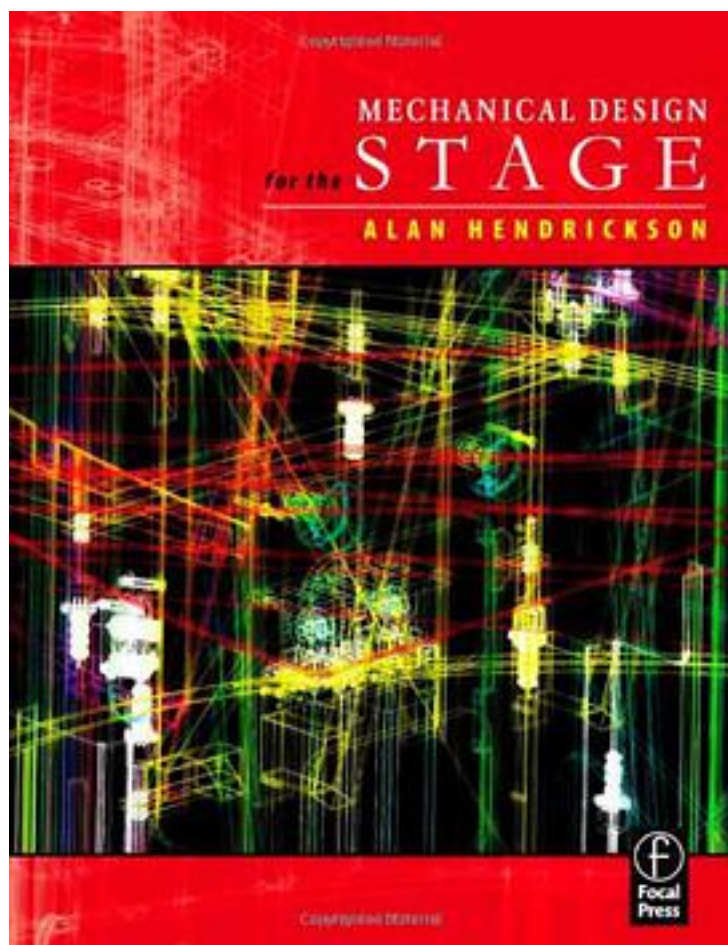


# Mechanical Design for the Stage



[Mechanical Design for the Stage\\_ 下载链接1](#)

著者:Alan Hendrickson

出版者:Focal Press

出版时间:2007-10-2

装帧:Paperback

isbn:9780240806310

在线阅读本书

Scenic effects involving rotating turntables, tracking stage wagons, and the vertical

movement of curtains and painted drops have become common in both Broadway and Regional theatre productions. The machines that drive these effects range from small pneumatic cylinders pushing loads of a few pounds an inch or two, to 40 horsepower winches running multi-ton scenery at speeds 6 feet per second or more. Usually this machinery is designed by theatre technicians specifically for a particular show's effect. Compared to general industry, this design process is short, often only a few days long, it is done by one person, design teams are rare, and it is done in the absence of reference material specifically addressing the issues involved. The main goal of this book is to remedy this last situation.

Mechanical Design for the Stage will be a reference for you that will:

- \* provide the basic engineering formulas needed to predict the forces, torques, speeds, and power required by a given move
- \* give a technician a design process to follow which will direct their work from general concepts to specific detail as a design evolves, and
- \* show many examples of traditional stage machinery designs.

The book's emphasis will be on following standard engineering design and construction practices, and developing machines that are functional, efficient to build, easily maintained, and safe to use.

- \* provides the basic engineering formulas needed to predict the forces torques, speeds, and power required by a given move
- \* describes the most common power transmission components used in stage machines: roller chain, cable drums, bearings, gear reducers, etc.

- \* gives a technician a design process to follow which will direct their work from general concepts to specific detail as a design evolves
- \* shows many examples of traditional stage machinery designs

作者介绍:

作者

艾伦·亨德里克森 (Alan Hendrickson)

耶鲁戏剧学院 (Yale School of Drama) 的技术设计和制作教授 (副教授)，1984年以来，他一直是风景机械化和控制方面的独立顾问。耶鲁大学开设的课程包括舞台机械物理、自动化控制、气动和液压以及剧院应用的机械设计。他的顾问工作包括液压、控制和机械设计，主要通过哈德逊风景工作室在百老汇、国家旅游和地区剧院演出中进行效果设计。

译者

魏发孔

中国演艺设备技术协会专业委员会常委，机械分会副主任，《演艺科技》杂志编委。历

任甘肃省电影机械厂工程师，技术科长，兰州理工大学舞台设备研究所，高级工程师，教授级高级工程师，研发部长，曾受聘于德国SBS（北京/杭州）舞台技术有限公司总工程师，受聘于浙江大丰实业股份有限公司（杭州）舞台设计院副院长。从事上述专业工作期间曾主持新产品研发50多项，主持大型工程设计30多项，获国家科技进步三等奖1项，省科技进步一、二、三等奖各1项，获国家发明专利9项，实用新型专利4项，参与国家标准制定1项，文化行业标准制定4项，发表专业技术论文50余篇。

目录:

[Mechanical Design for the Stage\\_ 下载链接1](#)

标签

评论

-----  
[Mechanical Design for the Stage\\_ 下载链接1](#)

书评

-----  
[Mechanical Design for the Stage\\_ 下载链接1](#)