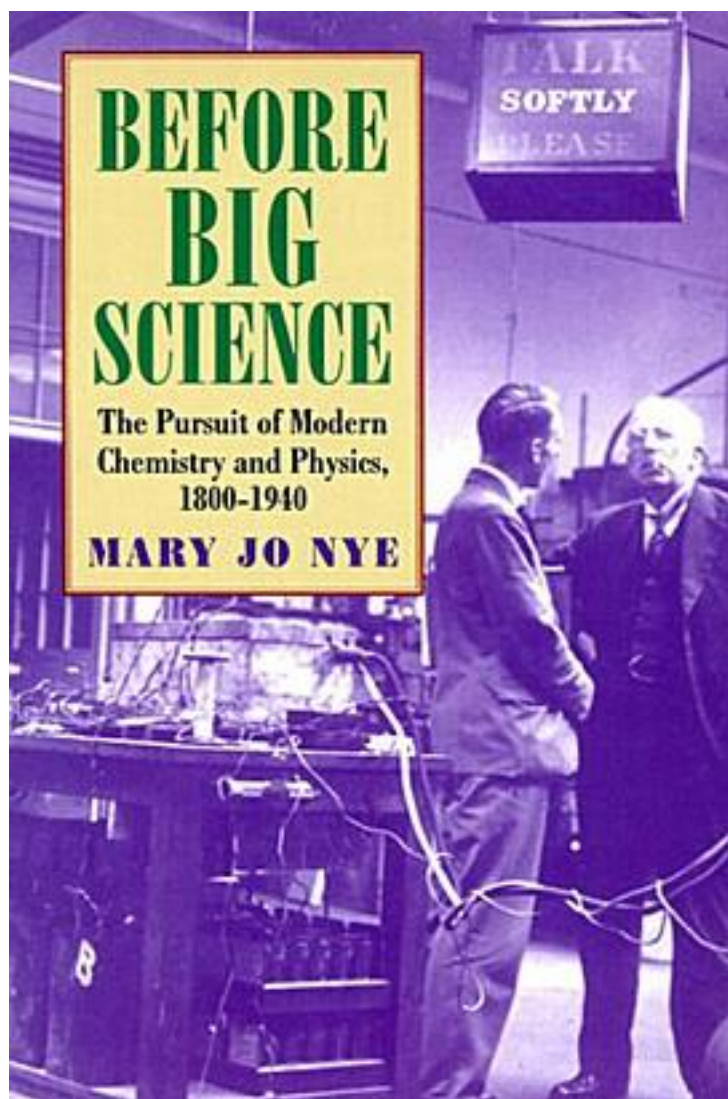


# Before Big Science



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The vast multinational scientific monoliths of the late-1990s bear little resemblance to the modest laboratories of the early 19th-century. Yet early in that century - when heat and electricity were still counted among the elements - changes were already under way that would revolutionize chemistry and physics into the "big science" of the late 20th-century, expanding tiny, makeshift laboratories into bustling research institutes. It also replaced the scientific amateurs and generalist savants of the early Victorian era with the professional specialist of contemporary physical science. Mary Jo Nyce traces in this text the social and intellectual history of the physical sciences from the early 1800s to the beginning of World War II, examining the sweeping transformation of scientific institutions and professions during the period and the groundbreaking experiments that fueled that change - from the earliest investigations of molecular chemistry and field dynamics to the revolutionary breakthroughs of quantum mechanics, relativity theory, and nuclear science.

作者介绍:

Mary Jo Nye (December 5, 1944–) is an American historian of science and retired faculty member of the History Department at Oregon State University.

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标签

评论

不错的十九世纪物理科学史概论书籍。特点有三：关注物理学和化学的分叉与交叉；注重思想史和社会史的整合；部分章节较为艰深，起码得学过大学物理才能明白。

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书评

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