

take a
good
look...

at Farrand Grating
MONOCHROMATORS

- Efficient
- Compact
- Precise
- Rugged
- Versatile
- Inexpensive

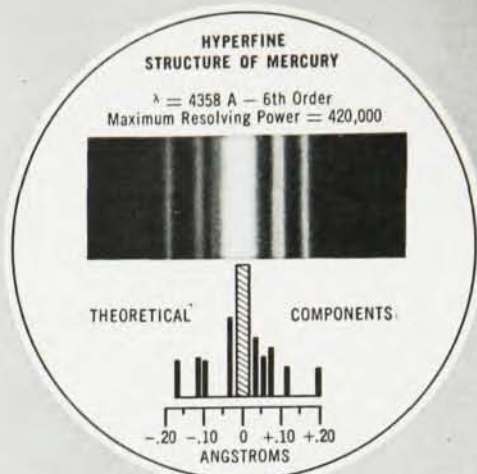


Write for descriptive literature

Farrand OPTICAL CO., INC.

535-PT So. 5th Avenue
Mount Vernon, New York 10550
914-668-9393 / Cable Address: FOCUS NY

The Pioneers in Fluorometry



Theoretical resolving power of a Farrand Master Diffraction Grating reflecting the efficiency of Farrand Replicas.

Farrand Grating Monochromators utilize the famous Farrand grating replicas and associated precision optical components... resulting in unusually high efficiency, excellent spectral purity and extremely low scatter. A number of models are available to cover various spectral ranges from 200 mμ to 3000 mμ. These Monochromators are ideally suited for a wide range of uses including such applications as microscope illumination, monochromatic projection and spectral measurements.

Research Scientists Optical Processing

Bendix Research Laboratories have excellent career opportunities in an expanding research group for scientists with an advanced degree in either Physics, EE, or Optics. Work will be in the areas of:

- HOLOGRAMMETRY
- SPATIAL OPTICAL FILTERING
- LASER OPTICS RESEARCH

Experience in laser technology is highly desirable. Please send resume to:

Personnel Director
Research Laboratories
The Bendix Corporation
Southfield, Michigan 48076

Bendix Research Laboratories

AN EQUAL OPPORTUNITY EMPLOYER

SEARCH AND DISCOVERY

an estimated beam intensity of 3×10^{11} ions/sec.

Experiments at the high-voltage terminal would be difficult, but the problem would be solved by telemetry, a rabbit system, a rotating wheel or photographic plates.

LASL Builds the World's Smallest Nuclear Reactor

You can now build a critical mass with 242 grams of U^{235} if you do it right. Carroll B. Mills and George A. Jarvis of Los Alamos Scientific Laboratory have done it right. By interleaving 0.003-cm-thick foils of U^{235} with 0.316-cm-thick polyethylene foils, they achieved criticality with a rectangular solid 15.4 cm square by 12 cm high. Each face of the core was covered with a layer of U^{235} foil, and the entire core was surrounded with a cubical beryllium reflector 30.4 cm thick.

This minimum critical mass of 242 g beats the old record set by L. P. D. King and R. E. Schreiber in 1943. They measured a minimum critical mass of 565.5 g for U^{235} in an aqueous solution of uranyl nitrate with a thick beryllium reflector.

Criticality can be obtained without any moderation or reflection using a sphere of 47 kg of pure U^{235} . With a little effort you can become the only kid on your block.

Tesla Laboratory Becomes Historic Site—Officially

The Brookhaven, N. Y., Town Historic Trust has taken one of the town's laboratories under its wing and designated it an "historic site." Not the laboratory that has made the town world famous, but that of Nicola Tesla, the electrical pioneer who rivaled Thomas A. Edison and whose induction motor won preference for ac power over dc. The building, which is on the north shore of Long Island, was designed by the famous architect Stanford White in 1902 and occupied by the Croatian-born inventor who came to the United States by way of Graz and Prague. It belongs now to Peerless Photo Products. □