

BACK SCATTERED ELECTRON OSCILLOGRAM SHOWING LEAD INCLUSIONS IN BRASS (1800X).

## WHERE SUBMICRONS ARE IMPORTANT,

## THE **E**LECTRON **M**ICROPROBE **X**-RAY ANALYZER is today's ultimate analytical research tool.

Electron Probe Microanalysis with the EMX □ Qualitative and quantitative atomic analysis in the micron spatial range, using dispersive and/or pulse height techniques. □ Analysis of all elements above atomic number 10. □ The ONLY microprobe with truly focusing monochromators used in conjunction with highest X-ray emergence angle. □ Lowest limits of detectability available. □ Three optical systems—electron optics, visual optics, and x-ray optics, all used simultaneously. □ Electronic readout systems—oscilloscope presentation, scaler, strip chart recorder.

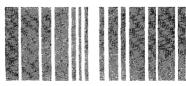
Many EMX applications may ultimately rely on the ingenuity and resourcefulness of the user. Some current applications include: 

Metallurgy—studies of phase systems for solid solutions, segregation, diffusion, etc. Studies of specimens for inclusions, scales, coatings, precipitates, crystal structure, effects of rolling and cold working 
Nonmetallic research—studies of semiconductors, meteorites, geological specimens, catalysts, glasses, cements. 

Medical, dental and biochemical research—studies of bone, teeth, stones and tissue. 
Production control—identification of unwanted inclusions in photographic films, metals and glasses.

EMX installations are currently operating successfully in dozens of America's major research organizations.

Write to ARL, world leader in successful analytical installations, for full information.





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