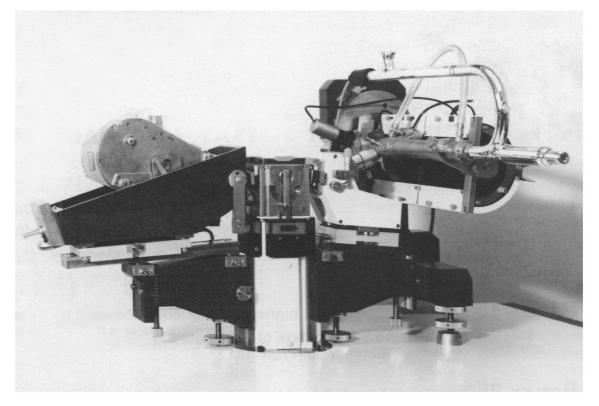
### ENRAF-NONIUS X-RAY DIFFRACTION



Pictured above: On the left is a triple sample Guinier powder camera, on the right a temperature programmable Guinier camera, shown mounted on a sealed tube X-ray generator.

FOR YOUR DIFFRACTION APPLICATIONS, OUR EQUIPMENT LINE INCLUDES:

- X-Ray Generators: Conventional Sealed Tube and Rotating Anode Types
- Ambient Temperature, Temperature Programmable Analytic Guinier Cameras
- CAD-4 Single Crystal Diffractometer, FAST Area Detector,
- Specialty Cameras
- EXAFS Systems
- Much More



For Informat	tion Please Con	taet ENRAF-N	ONIUS Or Y	our Local ENI	RAF-NONIUS Agent
	ENRAF-NONIUS P.O. Box 483 2600 AL Delft, Holland		ENRAF-NONIUS 390 Central Avenue Bohemia, NY 11716		·
	Telephone 015-569230 Telex 84438083		Telephone Telex 960	85	
Delft	New York	Solingen	Paris	London	Copenhagen

PD22



Powder Diffraction File 27-28

Now available in book form sets

Inorganic Volume: 2882 numeric diffraction patterns of inorganic phases, metals, alloys and minerals.

Organic Volume:

992 numeric diffraction patterns of organic and organometallic phases.

Crystallographic evaluation data made with program NBS\* EXAIDS83. Figure of merit for completeness and accuracy of interplanar spacings is assigned to each indexed pattern.

For further information write or call: JCPDS International Centre for Diffraction Data 1601 Park Lane, Swarthmore, PA 19081 USA (215) 328-9400

"CPDS" **PD24** 

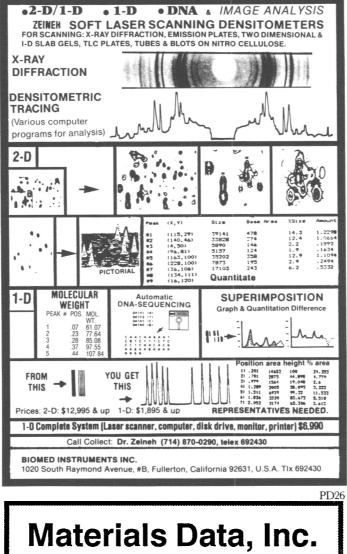
## Do you need to expand your x-ray diffraction analysis capabilities?

IC Laboratories can expand your analytical capabilities without increasing your overhead. In qualitative or quantitative x-ray diffraction analysis—from clays to zeolites, from coal to thin films—IC Labs can give you rapid turn-around of results (as little as 48 hours). We have one of the most highly automated commercial laboratories in the U.S. and the personnel with the knowledge to address your applications.

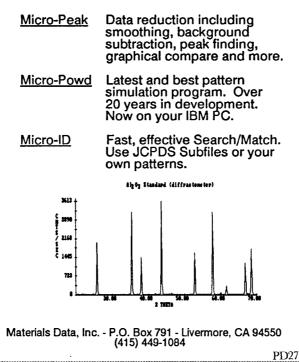
#### IC Laboratories

Post Office Box 721 Amawalk, New York 10501 (914) 962-2477

We're the Specialists in XRD



### Materials Data, Inc. Has Software for Your IBM-PC!

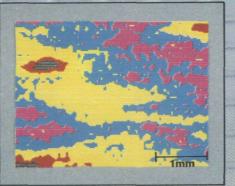


world's first . . . near real-time

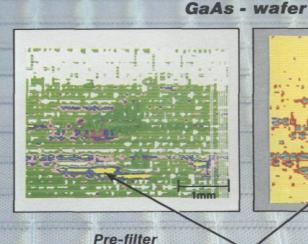
## DARC DIGITAL AUTOMATED ROCKING CURVE

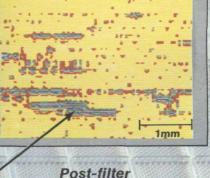
### **X-RAY TOPOGRAPHY SYSTEM**

HgCdTe - epi



Subgrain Structure





DEFECT MAP ENTIRE WAFER
NON-DESTRUCTIVE, NON-CONTACTING
ON LINE CAPABILITY
CALL OR WRITE FOR DETAILS



**Dislocation Bundles** 

brimrose corporation of america • 7720 belair road • baltimore, maryland 21236 301/668-5800 • telex: 910-997-6817

#### The X-ray Company

## INTRODUCING



## . the most complete, self-contained x-ray diffraction system available and at a remarkably low price!

Rigaku's new D/Max-B Series utilizes a self-contained, high speed, high capacity micro computer providing all the capabilities of a modern x-ray diffractometer system:

- Simultaneous operation of two instruments Data processing programs including soft-
- Automatic detector parameter selection
- Computer aided alignment
- Self diagnostics
- Full color graphics

 Data processing programs including sortware for search/match, quantitative & qualitative analysis, texture, residual stress determination, particle size, lattice parameter & indexing, deconvolution, microdiffraction and small angle scattering.

Amazing... all of these features available in one single unit... and the price... remarkably affordable! For more descriptive literature or a demonstration, call or write Rigaku/USA today!



### PHILIPS ANALYTICAL - X-RAY DIFFRACTOMETRY

# PUTTING POWER INTO POWDER ANALYSIS

Philips automated XRD systems have the power to make your powder analyses guicker, easier and much more reliable. Unlike conventional wet chemical methods, which often rely on sample solubility (and not all samples are soluble!), XRD analysis is non-destructive. So you can be sure of more reliable, detailed results. And your sample remains intact for other complementary analyses. Furthermore, sample preparation is very fast. Airborne dust, for example, can be collected on inexpensive paper filters, ready for immediate analysis. Data collection is also fast, taking minutes rather than hours. All of which adds up to quicker results ... and significant cost savings.



When it comes to data processing, our comprehensive software range is more than a match for any application. Qualitative analytical software rapidly and accurately identifies major and minor constituents. And quantitative analyses are accurate down to trace levels - even with very small samples. Other software modules include line profile and crystallographic analyses. In all cases, report generation is automatic, which cuts out one more tedious, time-consuming task for you. And that's another example of the power of Philips XRD. For more information, contact your local Philips organization ... you'll find it's well worth the effort!

#### FOR QUICKER, EASIER, MORE RELIABLE RESULTS: PHILIPS AUTOMATED XRD SYSTEMS.

Philips Scientific & Analytical Equipment, Lelyweg 1 7802 EA Almelo, The Netherlands. Tel.: (05490) 18291, Telex: 36591

(In U.S.A.) Philips Electronic Instruments, Inc., Analytical X-ray Group, 85 McKee Drive, Mahwah, NJ 07430. Tel.: (201) 529-3800



Scientific & Analytical Equipment



https://doi.org/10.1017/S0885715600011945 Published online by Cambridge University Press