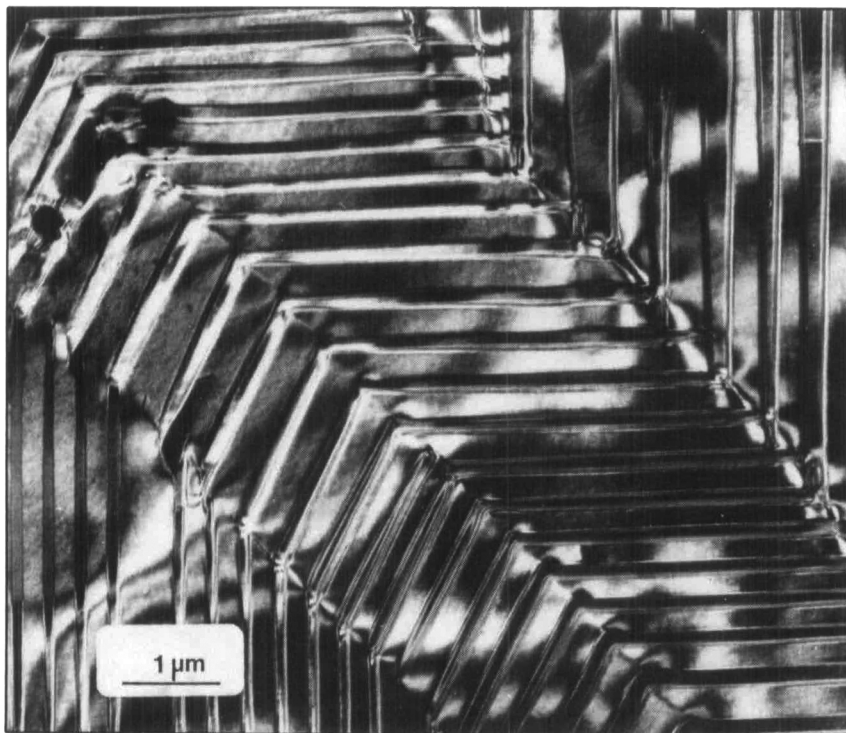


Figures appearing in the EDITOR'S CHOICE are those arising from materials research which strike the editor's fancy as being aesthetically appealing and eye-catching. No further criteria are applied and none should be assumed. When taken out of context, such figures often evoke images beyond and unrelated to the original meaning. Submissions of candidate figures are welcome and should include a complete source citation, a photocopy of the report in which it appears (or will appear), and a reproduction-quality original drawing or photograph of the figure in question.



This repetitive pattern with a metallic luster could be seen as merely a bent piece of corrugated sheet metal. A more imaginative reaction might be a staircase and railing decor to be found only in the most posh hotel lobby (rarely inhabited by technical conference attendees). In fact we have in this issue's EDITOR'S CHOICE a transmission electron micrograph of heavily twinned uranium silicide (U_3Si). The mechanical twins are generated by the stress attendant to a martensitic transformation on cooling from the high-temperature ordered tetragonal crystal structure to an orthorhombic structure stable at low temperature. This work was done in conjunction with a study at the Argonne National Laboratory (to be published) on radiation effects in intermetallic compounds which may serve as reactor fuel-element materials. The investigators, R.C. Birtcher, C.W. Allen, L.E. Rehn and G.L. Hofman, have suggested, and EDITOR'S CHOICE heartily agrees with, the automotive interpretation of this figure as reminiscent of the grill of a Buick.

Voltaix

CVD GASES

Disilane

**Highest Purity
Available Anywhere**

(>1500 ohm-cm)

Pure or mixtures

Quality Control

- ◆ 100% GC / MS analysis

Packaging Options

- ◆ Steel, polished steel or aluminum cylinders
- ◆ Pneumatic valves for fail-safe gas supply
- ◆ Choice of flow restrictor for added safety
- ◆ VCR outlets for UHV connection to system

Growing Applications

- ◆ Ge-Si alloys
- ◆ Polysilicon
- ◆ Low temperature epi
- ◆ BPSG, PSG, SG coatings
- ◆ High rate PECVD

Now in Europe thru

OTAVI MINEN AG

Telefon 0 61 96/70 28-0

Telex 4 07 2630 otav

Telefax 70 28 80

Voltaix, Inc.

P.O. Box 5357, 197 Meister Ave.

N. Branch, New Jersey 08876

Telephone: (201) 231-9060

Telex: 9102500134 VoltaixUQ

Editorial Contact

Gail A. Oare

MRS BULLETIN

Materials Research Society

9800 McKnight Road, Suite 327

Pittsburgh, PA 15237

(412) 367-3036

Fax: (412) 367-4373

Advertising Contact

Mary E. Kaufold

MRS BULLETIN

Materials Research Society

9800 McKnight Road, Suite 327

Pittsburgh, PA 15237

(412) 367-3036

Fax: (412) 367-4373