

Voltaix

CVD GASES

Disilane

**Highest Purity
Available Anywhere**

(>1500 ohm-cm)

Pure or mixtures

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- ◆ 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
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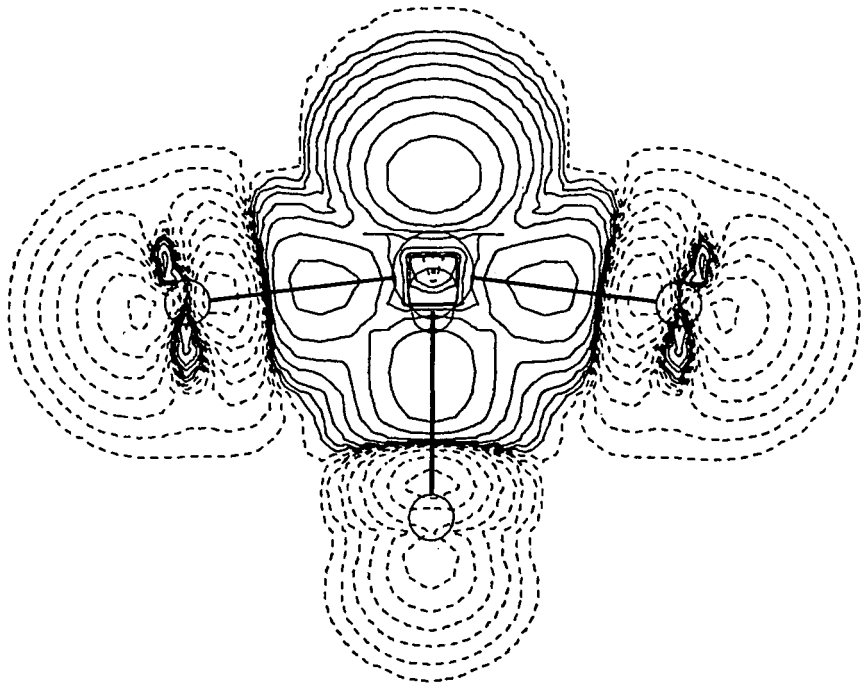
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Please visit Booth No. 604 at the MRS Show in San Diego, April 25-27

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.



Anyone who has recently walked a beach on a windy day will recognize that the traditional diamond-shaped kite is passé. This month's figure was chosen for EDITOR'S CHOICE because it's reminiscent of many modern variations (*sans* tail) on these flying objects. Some may see a flying insect or even an aircraft with the cockpit quite clear in the center of the figure, but none can avoid an aerodynamic interpretation. The figure's true meaning is buried deep in the text of a rather formidable theoretical work by M. Grodzicki, V. Manning, A.X. Trautwein and J.M. Friedt, which appeared in *J. Phys. B: At. Mol. Phys.* **20** (1987) p. 5595-5625. The authors' calculations are aimed at calibrating electromagnetic interactions experienced by nuclei used in Mössbauer effect experiments by computing electronic charge densities of relevance. The element, iodine, is of interest in this context and the figure represents a map of the difference between electron densities computed with and without inclusion of iodine 5*d* atomic orbitals for the polyatomic interhalogen molecule IF₅. The curves shown here lie in a plane perpendicular to the equatorial plane of the molecule.

EQUIPMENT EXHIBIT

at the
1989 MRS Spring Meeting

See p. 55