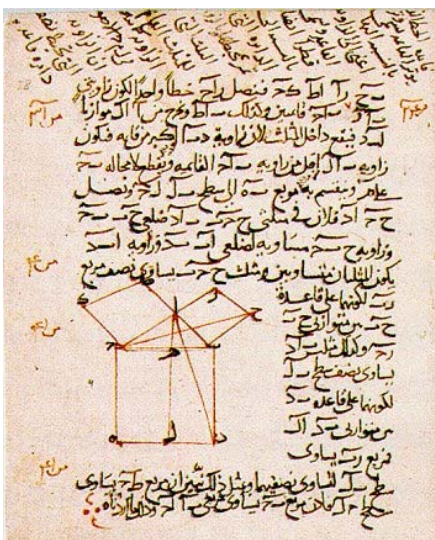


684



SERIES ARTICLES

- 684** Dawn of Science
'Ishango Bone' To Euclid
T Padmanabhan

GENERAL ARTICLES

- 690** Ferdinand Freudenstein
Bernard Roth
- 699** The Freudenstein Equation
Design of Four-Link Mechanisms
Ashitava Ghosal
- 711** Mirrors and Merry-Go-Rounds
Joseph Samuel

723





Classroom

Counting Formula for 3×3 Generalized Magic Squares **733**

Chanchal Kumar, Pavinder Singh and Ashok Kumar

A Note on Non-Unique Factorization Domains (UFD) **737**

Dorel Mihet

723 **The 2009 Nobel Prize in Physics**
Honoring Achievements in Optics that have Changed Modern Life
Vasant Natarajan

Front Cover



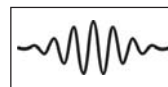
Photograph of laser-cooled cloud of ytterbium atoms taken with a CCD camera. The inventors of the CCD sensor shared the 2009 Nobel Prize in Physics. See page 732.
(Courtesy: Atomic and Optical Physics Lab, IISc)

Back Cover



Ferdinand Freudenstein
(1926–2006)
(Illustration: Subhankar Biswas)

DEPARTMENTS



Editorial

G K Ananthasuresh **681**



Classics

740

Approximate
Synthesis of Four-Bar
Linkages
Ferdinand Freudenstein

Inside Back Cover

Flowering Trees
(Credit: Varsha Kulkarni, IISc)

