

**SERIES ARTICLES**

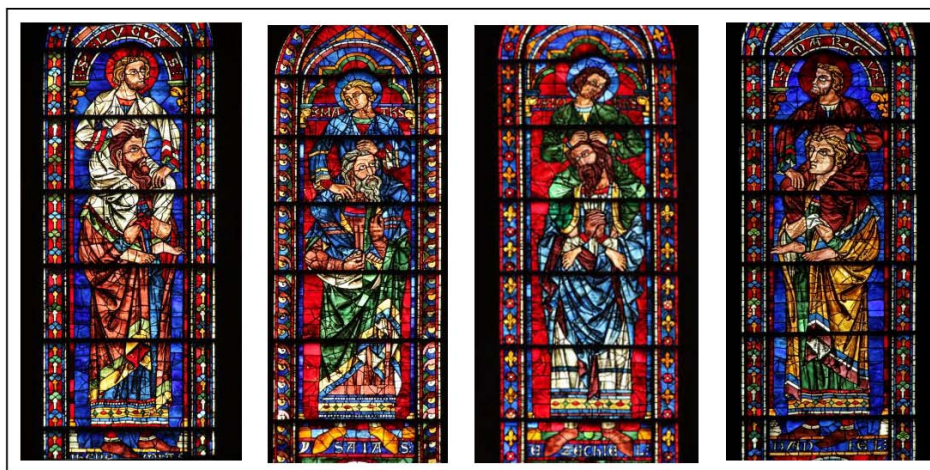


- 324 Dawn of Science**  
*All Was Light – II*  
T Padmanabhan

**GENERAL ARTICLES**



- 330 Eliciting Information on Sensitive Matters Without Inviting Respondents' Ire**  
*Randomized Response Techniques*  
V R Padmawar
- 347 Do Bacteria Age?**  
*A Contemporary Controversy in Biology*  
Souvik Bhattacharyya
- 365 The Evolution of Diesel Engines**  
U Shrinivasa



324





### Classroom

A Train Journey between Two Terminating Stations

*S N Maitra* **378**

Unidirectional Motion of Vehicle on Sinusoidal Path:  
Can it Cause Illusory Forward and Backward Motion?

*Anuj Bhatnagar* **387**



### Information & Announcements

Fortieth Refresher Course in Experimental  
Physics

**425**

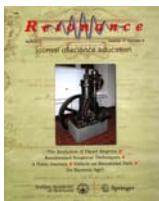
## REFLECTIONS

### 393 *Darshana Jolts*

*Electricity: An Underlying Entity in Matter and Life,  
A Sustaining Principle in Modern Civilization*

*V V Raman*

#### Front Cover



First prototype of the diesel engine.  
Courtesy: Wikipedia

#### Back Cover



Rudolf Diesel  
(1858–1913)  
(Illustration: Subhankar Biswas)

## DEPARTMENTS



**Editorial** **317**

*G K Ananthasuresh*

**Article in a Box** **319**

Rudolf Diesel – The  
Rational Inventor of  
a Heat Engine

*Tilottama Shrinivasa*



**Science Smiles** **321**

*Ayan Guha*



**Classics** **406**

Diesel's Rational  
Heat Motor

*Rudolph Diesel*

#### Inside Back Cover

Flowering Trees

Credit: Navendu Page, IISc

