



Mathematical Analysis. Echoes from *Resonance* Series. Alladi Sitaram and Vishwambar Pati (eds). Indian Academy of Sciences (Bangalore) and Universities Press, 3-5-819 Hyderguda, Hyderabad. 2001. 142 pp. Price: Rs 185.

This is a collection of 22 articles published in *Resonance* during the period 1996–98. It is divided into three parts. Part I has three essays touching on proof by mathematical induction, countable

and uncountable sets, the notion of cardinal number as the size of an abstract set and the axiom of choice. All of them contain illuminating examples which should prove attractive for beginners who wish to have an initiation into the logical foundations of mathematics.

Part II comprising 11 articles, with emphasis on sequences and series, includes an iterative formula of Ramanujan, the Gregory–Nilakanthā–Madhava series for

$$\frac{\pi}{4} = 1 - \frac{1}{3} + \frac{1}{5} - \frac{1}{7} + \frac{1}{9} - \dots,$$

Euler's proof of the theorem that the sum of the reciprocals of the prime number sequence is infinite, algorithms for extracting roots, Stirling's formula for the fast growing $n!$ in terms of e and π , Fourier series as models of periodic phenomena, Hurewicz's proof of the theorem that among all closed curves of a fixed perimeter, the circle is the unique curve en-

closing the maximum area, passage from Fourier series to Fourier integrals highlighting its role in signal processing and finally an absolutely delightful and elementary introduction to wavelets.

Part III consists of short biographical sketches of eight great analysts, including among others, Nilakantha Somayaji, Sonya Kovalevskaya, Ramanujan and Harish-Chandra.

The essays have been carefully and tastefully chosen, always keeping in view the importance of striking a balance between the dry and formal nature of mathematics on the one hand, and its informal, intuitive and pleasant features on the other.

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ERRATA

In the article 'Determination of the structure of the recombinant T = 1 capsid of sesbania mosaic virus' by V. Sangita, S. Parthasarathy, S. Toma, G. L. Lokesh, T. D. S. Gowri, P. S. Satheshkumar, H. S. Savithri and M. R. N. Murthy (*Curr. Sci.*, 2002, **82**, 1123–1131), Figure 1 illustrating the arrangement of protein subunits on T = 1 and T = 3 icosahedral surface lattices was origi-

nally drawn by Irving Geis. Due to an unfortunate oversight, due acknowledgement of the source was not made in the publication.

M. R. N. Murthy

There was an error in reporting the findings on the lizard, under the section 'In this issue' written by S. Ganguli. However, the studies on the lizard provide an insight as to how the evolution of viviparity might have evolved among reptiles, in general. Hence, the last statement in the said section should be read as 'evolution of viviparity

in reptiles' instead of 'evolution of viviparity in garden lizard'.

Bhagyashri A. Shanbhag

In 'Transgenic mustard' (S. C. Tiwari, *Curr. Sci.*, 2003, **84**, 616), the sentence, '... wish to caution the policy-makers against the **collision** of MNCs with ...' should

read, '... wish to caution the policy-makers against the **collusion** of MNCs with ...'. We regret the error.