

However, the assumption of Theorem 1 is that  $P_n = P$  after one revolution along  $C$ , and this means by (3.10) that  $2\phi_n = 2\phi + 2\pi$ , and therefore

$$\phi_n = \phi + \pi. \quad (3.12)$$

The assumption of Theorem 1 therefore implies the equation

$$\int_{\phi}^{\phi + \pi} \frac{d\theta}{\sqrt{1 - k^2 \sin^2 \theta}} = n\omega. \quad (3.13)$$

This, then, is an equation implied by our assumption that  $P = P_n$ . The converse is also true because the integrand of (3.13) is positive, and therefore (3.13) means, by (3.10), that

$$\phi_n - \phi = \pi.$$

The question now is this: *Does the equation (3.13) remain valid if we vary  $\phi$ ?* Evidently so, because the integrand of (3.13) is a periodic function of period  $\pi$ , and so the integral over a period, from  $\phi$  to  $\phi + \pi$ , does not depend on the value of  $\phi$ . This completes our proof of Theorem 1.

If we should have that  $P_n = P$ , not after one revolution, but after  $k$  revolutions around the circle  $C$ , then (3.13) is to be replaced by

$$\int_{\phi}^{\phi + k\pi} \frac{d\theta}{\sqrt{1 - k^2 \sin^2 \theta}} = n\omega$$

and again the equation remains valid if we vary  $\phi$ .

The beauty of the proof is that, while it uses the elliptic integral

$$\int \frac{d\theta}{\sqrt{1 - k^2 \sin^2 \theta}},$$

it uses only the simplest concepts of integral calculus.

# Mathematical Time Exposures

**Wil F. Ten Berge**



## Mathematical Time Exposures:

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Sciences,Committee on Advances in Assessing Human Exposure to Airborne Pollutants,1991-02-01 Most people in the United States spend far more time indoors than outdoors Yet many air pollution regulations and risk assessments focus on outdoor air These often overlook contact with harmful contaminants that may be at their most dangerous concentrations indoors A new book from the National Research Council explores the need for strategies to address indoor and outdoor exposures and examines the methods and tools available for finding out where and when significant exposures occur The volume includes A conceptual framework and common terminology that investigators from different disciplines can use to make more accurate assessments of human exposure to airborne contaminants An update of important developments in assessing exposure to airborne contaminants ambient air sampling and physical chemical measurements biological markers questionnaires time activity diaries and modeling A series of examples of how exposure assessments have been applied properly and improperly to public health issues and how the committee's suggested framework can be brought into practice This volume will provide important insights to improve risk assessment risk management pollution control and regulatory programs **Music and**

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