

Enigmas, etc.

Elevation Angle

■ Takashi Ohira[®]

et us continue sailing on the same Cartesian impedance plane. Recalling the origin-centered circular arc presented last month, we now slide it 50 Ω rightward as shown in Figure 1. Find the Poincaré length Λ of this arc and express it in terms of the elevation angle θ observed from the origin. Which of the following is equal to Λ ?

- (a) θ
- (b) $\sin\theta$
- (c) $\cos\theta$
- (d) $\tan \theta$

The solution will be revealed next month. Until then, enjoy this puzzle and expect the arc length Λ to exhibit

Takashi Ohira (ohira@tut.jp) is with Toyohashi University of Technology, Aichi 441-8580, Japan. He is a Life Fellow of IEEE.

Digital Object Identifier 10.1109/MMM.2024.3444648 Date of current version: 11 October 2024

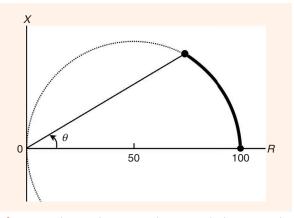


Figure 1. *The circular arc standing upon the horizon with elevation angle* θ *.*

a physical meaning different from that presented last month, although the two arcs are of the same shape and dimensions.

IEEE connects you to a universe of information!

As the world's largest professional association dedicated to advancing technological innovation and excellence for the benefit of humanity, the IEEE and its Members inspire a global community through its highly cited publications, conferences, technology standards, and professional and educational activities.

Visit www.ieee.org.



Publications / IEEE Xplore® / Standards / Membership / Conferences / Education