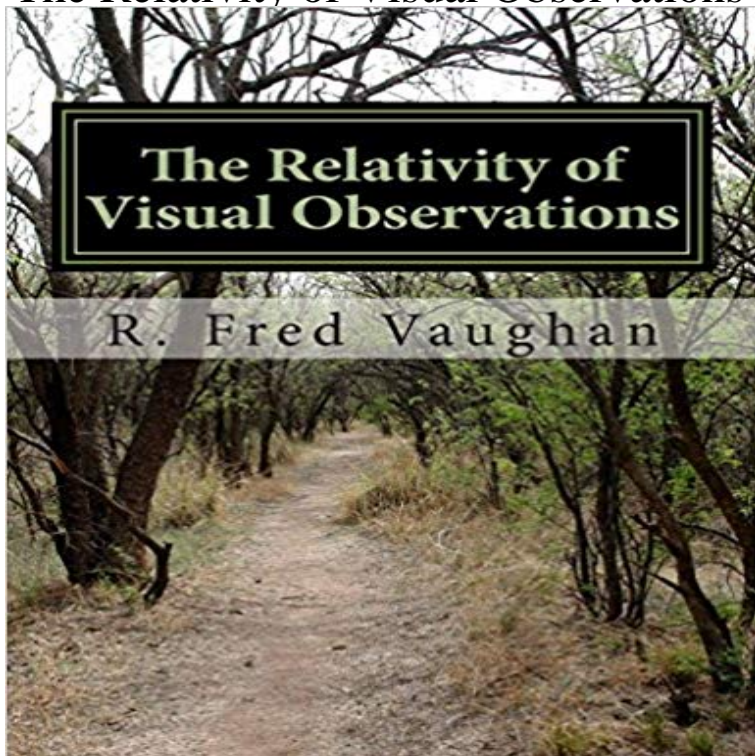


The Relativity of Visual Observations



This monograph provides a reformulation of relativity theory that emphasizes a direct relationship between the visual observations of observers in relative motion. It draws a clear distinction between actualized observation and inferences from theoretical constructs that cannot be observed. The focus is on visual observations rather than abstractions that have traditionally been supposed to constitute observations in relativity. Penrose and Terrell demonstrated that besides the Lorentz transformation a second transformation of the field of vision is required to transform visual observations between relatively moving observers. The dual transformation set transforms observed circles into circles, refuting Einsteins prediction that spheres would appear oblate to an observer in relative motion. In this monograph we proceed further to examine the appearance of wall clocks by applying this same transformation of the field of vision. Using clocks rather than static objects provides a time stamp on a neighborhood of transformed events that accommodates a determination of whether observations are related in accordance with the established interpretation of the Lorentz equations, i. e., does the other observers clock time appear dilated. We demonstrate an inconsistency with frame independence and mutual observability tenets in this regard. The role of the kinematics problem in Einsteins selection and interpretation of Lorentz transformation equations is discussed as the rationale for his having conjectured Lorentz contraction and time dilation. As points of departure, alternative hypotheses are presented that provide different solutions to this problem with interpretations of the inevitable spatial and temporal disparities which more consistently predict experimental observations. Finally a single transformation with no intermediary

metaphysical distractions is derived by embracing observable relativistic aberration and Doppler effects on the electric and magnetic fields of electrodynamics. It provides a physical basis (rather than mere mathematical formalities) for understanding the ostensible effects of relative motion. It supports frame independence and mutual observability and accommodates covariance, generalization, and compatibility with quantum theories

Agradable ruta realizada junto al Bilbao Alpino que parte desde la localidad alavesa de Guinea, en la vertiente Sur de la sierra de Arkamo y que discurre por las cimas de Olvedo, Pelistornes y Cantoblanco.

Desde Guinea el camino es muy evidente, ya que las dos primeras cimas están muy cerca y separadas por un pequeño collado. Su subida es corta y casi directa y está señalizada justo a la salida del pueblo.

Al Olvedo se llega relativamente rápido. A pesar de que las nubes a veces nos impiden apreciar las vistas, el paisaje se intuye precioso.

2017-01-22_10-36-17

Para pasar del Olvedo al Pelistornes tan sólo tenemos que cruzar el collado y llegaremos en apenas 10 minutos a nuestra segunda cima del día.

2017-01-22_10-53-02

Una vez coronadas las cimas anteriores hay que continuar la travesía en dirección a la al Cantoblanco, que se asciende tras un durillo cortafuegos.

20170122_123405

Desde la cima tenemos justo en frente el Montemayor, máxima altura de la vecina sierra de Arkamo.2017-01-22_13-00-09

Finalmente, iniciamos el descenso hacia la curiosa localidad de Salinas de Añana...

20170122_142807

...donde podremos completar la ruta con una visita a las propias Salinas.

20170122_142812

Una ruta de unos 15 kilómetros sin dificultades reseñables. Únicamente se hace necesaria logística de vehículos. De no tener esta facilidad entonces es mejor realizar únicamente la subida al Olvedo y Pelistornes.

Tu voto:

Publicado en Araba, Rutas fáciles | Deja un comentario

Los Retos de 2017

Publicado el 01/24/2017 por 12meses12montes

Bueno, un nuevo año que ha pasado y uno nuevo que acaba de comenzar. 2016 fue un año muy intenso, si bien los retos que nos marcamos en un principio sólo se vieron cumplidos en una tercera parte. No fue un buen año para ellos, ésta vez la alineación de planetas se generó en pocas ocasiones.

Sin embargo, no decaemos. Cogemos el testigo y no vamos a desistir en su intento, por lo que los retos que no

conseguimos cumplir en 2016 serán los que tratemos de realizar en 2017, más algunos otros, a ver qué os parecen. Seguir leyendo

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