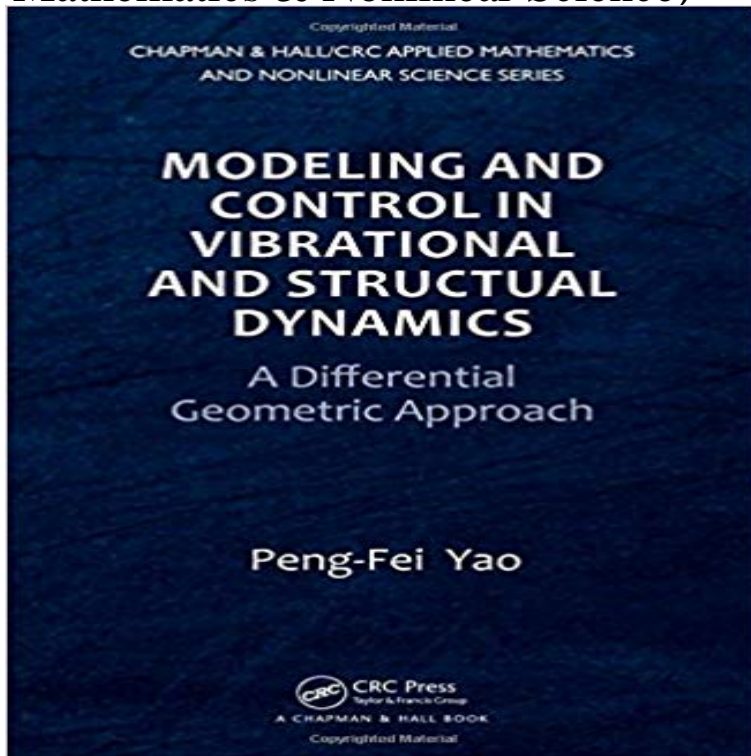


Modeling and Control in Vibrational and Structural Dynamics: A Differential Geometric Approach (Chapman & Hall/CRC Applied Mathematics & Nonlinear Science)



Modeling and Control in Vibrational and Structural Dynamics: A Differential Geometric Approach describes the control behavior of mechanical objects, such as wave equations, plates, and shells. It shows how the differential geometric approach is used when the coefficients of partial differential equations (PDEs) are variable in space (waves/plates), when the PDEs themselves are defined on curved surfaces (shells), and when the systems have quasilinear principal parts. To make the book self-contained, the author starts with the necessary background on Riemannian geometry. He then describes differential geometric energy methods that are generalizations of the classical energy methods of the 1980s. He illustrates how a basic computational technique can enable multiplier schemes for controls and provide mathematical models for shells in the form of free coordinates. The author also examines the quasilinearity of models for nonlinear materials, the dependence of controllability/stabilization on variable coefficients and equilibria, and the use of curvature theory to check assumptions. With numerous examples and exercises throughout, this book presents a complete and up-to-date account of many important advances in the modeling and control of vibrational and structural dynamics.

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.

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