

GC-2015

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Despacho: 308B.

Contenidos:

⊗ Curvas y superficies

→ Curvas definidas en condiciones diferenciales.

⊗ Reconstrucción a partir de la curvatura (y torsión)

⊗ Elástica de Euler.

⊗ Envolventes.

⊗ Geodésicas.

→ Cónicas

→ Cónicas como curvas racionales,

...

→ Curvas y superficies útiles en diseño asistido por ordenador.

→ Curvas de Bézier

→ Superficies de Bézier

→ Geometría euclídea discreta.

→ Triangulaciones

→ Env. convexas,



→ Localización de puntos,

→ Problemas de clasificación,

→ Disc. de Fisher

→

Bibliografía:

- M. Do Carmo, Geometría Dif. de Curvas y Superficies.



Geometria diferencial de curvas y superficies/ Differential Geometry of the Superficial Curves (Spanish Edition)

(Spanish) Paperback – June 30, 2007

by **Manfredo P. Do Carmo** (Author)

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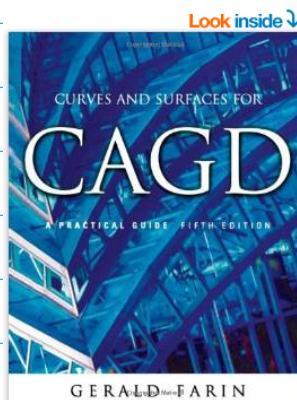
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Curves and Surfaces for CAGD, Fifth Edition: A Practical Guide (The Morgan Kaufmann Series in Computer Graphics)

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by **Gerald Farin** (Author)

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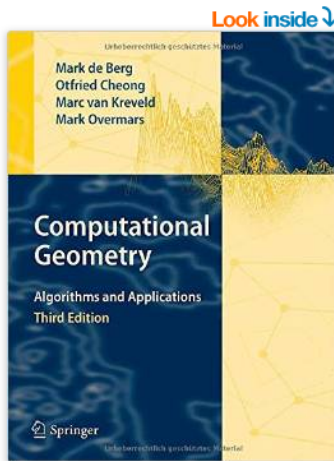
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by [Mark de Berg](#) (Author), [Otfried Cheong](#) (Author), [Marc van Kreveld](#) (Author), & 1 more

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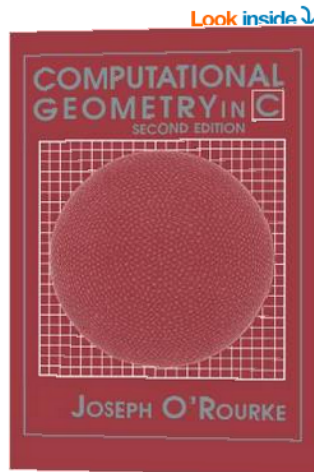
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by [Joseph O'Rourke](#) ▾ (Author)

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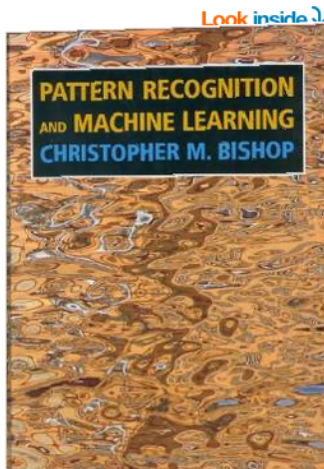
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by [Christopher M. Bishop](#) ▾ (Author)

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Evaluación:

- Se intentará que sea mediante prácticas.
- Alternativamente, se puede proponer un examen.

Prácticas: Grupo de 3 personas.

En el C.V. se publicarán enunciados y fechas de entrega,
y entregas.

- La práctica debe funcionar.
- Comprensión de la práctica.

`L[0][1:] [-1]`

→ Código legible.

→ Python / Software libre.