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## COMP5821M Module Reading List

Geometric Processing, 2021/22, Semester 1

**Prof Hamish Carr** 

H.Carr@leeds.ac.uk

Tutor information is taken from the Module Catalogue

(http://webprod3.leeds.ac.uk/catalogue/dynmodules.asp?Y=202122&M=COMP-5821M)

The principal text for this module is:

Botsch, Kobbelt et al, *Polygon Mesh Processing*(<a href="https://leeds.primo.exlibrisgroup.com/discovery/search?">https://leeds.primo.exlibrisgroup.com/discovery/search?</a>
<a href="mailto:query=any,contains,991019588047705181&tab=AlmostEverything&search\_scope=My\_Inst\_Cl\_not\_Peters">https://leeds.primo.exlibrisgroup.com/discovery/search?</a>
<a href="mailto:query=any,contains,991019588047705181&tab=AlmostEverything&search\_scope=My\_Inst\_Cl\_not\_Peters">https://leeds.primo.exlibrisgroup.com/discovery/search?</a>
<a href="mailto:query=any,contains,991019588047705181&tab=AlmostEverything&search\_scope=My\_Inst\_Cl\_not\_Peters">https://leeds.primo.exlibrisgroup.com/discovery/search?</a>
<a href="mailto:query=any,contains,991019588047705181&tab=AlmostEverything&search\_scope=My\_Inst\_Cl\_not\_Peters">https://leeds.primo.exlibrisgroup.com/discovery/search?</a>
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<a href="mailto:query=any,contains">query=any,contains</a>
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Some material may also be drawn from:

Akenine-Möller, Haines & Hoffman, Real-Time Rendering

(https://leeds.primo.exlibrisgroup.com/discovery/search?

query=any,contains,991004325429705181&tab=AlmostEverything&search\_scope=My\_Inst\_Cl\_not\_

(Fourth Edition), CRC Press (used for COMP 5822M High-Performance Graphics)

Hughes, van Dam et al, *Computer Graphics*(https://leeds.primo.exlibrisgroup.com/discovery/search?

query=any,contains,991005490949705181&tab=AlmostEverything&search\_scope=My\_Inst\_Cl\_not\_
(Third Edition), Addison-Wesley 2014 (used for COMP 5812M Foundations of Modelling & Rendering)

de Berg, Cheong, van Kreveld & Overmars, *Computational Geometry*(<a href="https://leeds.primo.exlibrisgroup.com/discovery/search?">https://leeds.primo.exlibrisgroup.com/discovery/search?</a>

query=any,contains,991009944739705181&tab=AlmostEverything&search\_scope=My\_Inst\_Cl\_not\_
Springer 2008

Students who wish to refresh the relevant mathematics prior to the module are recommended to consider:

Vince, Mathematics for Computer Graphics

(https://leeds.primo.exlibrisgroup.com/discovery/search?

query=any,contains,991007091809705181&tab=AlmostEverything&search\_scope=My\_Inst\_Cl\_not\_
(Fifth Edition), Springer 2017.

Students wishing a supplemental text for the differential geometry studied in the module are recommended to use one of:

do Carmo, Differential Geometry of Curves and Surfaces

(https://leeds.primo.exlibrisgroup.com/discovery/search?

query=any,contains,991011562349705181&tab=AlmostEverything&search\_scope=My\_Inst\_Cl\_not\_
Edition), Prentice Hall 1976

Kreyszig, Differential Geometry (https://leeds.primo.exlibrisgroup.com/discovery/search?

query=any,contains,991019588047405181&tab=AlmostEverything&search\_scope=My\_Inst\_Cl\_not\_
Dover 1991

A useful supplement for modelling surfaces is:

Farin, Curves and Surfaces for CAGD: A Practical Guide

(https://leeds.primo.exlibrisgroup.com/discovery/search?

query=any,contains,991009326569705181&tab=AlmostEverything&search\_scope=My\_Inst\_CI\_not\_

(Fifth Edition), Morgan Kaufman 2002

Details for isosurfaces can be found in:

Wenger, Isosurfaces (https://leeds.primo.exlibrisgroup.com/discovery/search?

query=any,contains,991019675339005181&tab=AlmostEverything&search\_scope=My\_Inst\_Cl\_not\_
AK Peters, 2013

This list was last updated on 25/09/2020

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