

# Fundamentals Of Matrix Computation Solutions Manual

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Fundamentals of matrix computations Hassan S, Mahmoud M, Hemeida A and Saber M (2018) Effective introduction of MatrixVector multiplication on Intel AVX multi-core processor, Computer languages, systems and structures, 51:C, (158-175), Online publication date: 1-January-2018. Elisov L, Gorbachenko V and Yukov M (2018) Study of radial base

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consider a matrix  $\tilde{G}$  of size  $(n + 1) \times (n + 1)$  partitioned into a leading matrix  $G$  of size  $n \times n$ .  $G =$

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$G_{11} = 0$   $h_{Tg} = g_{n+1, n+1}$ . Now by expanding the determinant of  $G$  along its last column we see that  $|G| = g_{n+1, n+1} |G_{11}| = g_{n+1, n+1} \prod_{i=1}^n g_{ii} = \prod_{i=1}^n g_{ii}$ , proving by induction that the determinant of a triangular matrix is equal to the product of its diagonal elements.

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Since  $u$  and  $v$  are vectors the expression  $v^T A^{-1} u$  is a scalar and the  $I$  is also a scalar namely, the number 1. Multiplying the above by  $A$  on the left the linear system that  $x$  must satisfy,  $Ax = b + u(1 + v^T A^{-1} u)^{-1} v^T A^{-1} b$ . In this expression, both  $v^T A^{-1} u$  and  $v^T A^{-1} b$  are scalars, thus by factoring out the only vector.

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