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Addenda

Changes in notation

Concept name	**old notation**	**new notation**
Cartesian product of two sets	$\lbrack\!\lbrack A, B \rbrack\!\rbrack$	$A \times B$
Cartesian product of three sets	$\lbrack\!\lbrack A, B, C \rbrack\!\rbrack$	$A \times B \times C$
Affine map	$\mathrm{AffineMap}(a, b)$	$a\square + b$
Forward difference	$\mathrm{fD}(f, h)$	$\Delta_h[f]$
Backward difference	$\mathrm{bD}(f, h)$	$\nabla_h[f]$
Central difference	$\mathrm{cD}(f, h)$	$\delta_h[f]$
Forward difference sequence	$\mathrm{fdif}(f, h)$	$\vec{\Delta}_h[f]$
Backward difference sequence	$\mathrm{bdif}(f, h)$	$\vec{\nabla}_h[f]$
Central difference sequence	$\mathrm{cdif}(f, h)$	$\vec{\delta}_h[f]$
Difference	$\Delta(f, x, y)$	$\Delta[f](x, y)$
Difference	$[\!!f, x, y, z!\!]$	$\Delta[f](x, y, z)$
Difference	$[\!!f, x, y, z, v!\!]$	$\Delta[f](x, y, z, v)$
Identity matrix of size n over K	$\begin{pmatrix} 1 & & 0 \\ & \ddots & \\ 0 & & 1 \end{pmatrix}_K^{n\times n}$	$I_K^{n\times n}$
Zero matrix of size $n \times m$ over K	$\begin{pmatrix} 0 & \dots & 0 \\ \vdots & \ddots & \vdots \\ 0 & \dots & 0 \end{pmatrix}_K^{n\times m}$	$0_K^{n\times m}$

Number sets

$\mathbb{N}$ - the set of natural numbers
$\omega = \mathbb{N}$ - the set of finite ordinal numbers
$\mathbb{Z}$ - the set of integer numbers
$\mathbb{Q}$ - the set of rational numbers
$\mathbb{R}$ - the set of real numbers
$\overline{\mathbb{R}} = \mathbb{R} \cup \{-\infty, +\infty\}$ - the set of extended real numbers
$\mathbb{C}$ - the set of complex numbers

Grzegorz Bancerek
Scientific Editor

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