

A-Level Further Mathematics

Glossary · 词汇表 · every term in the course, A–Z

English	中文	Pinyin
 angular speed	角速度	jiǎo sù dù
 arc length	弧长	hú zhǎng
= auxiliary equation	辅助方程	fǔ zhù fāng chéng
 bounding parabola	包络抛物线	bāo luò pāo wù xiàn
+ Cartesian coordinates	直角坐标	zhí jiǎo zuò biāo
+ Cartesian equation	直角坐标方程	zhí jiǎo zuò biāo fāng chéng
 centre of mass	质心	zhì xīn
 centripetal acceleration	向心加速度	xiàng xīn jiā sù dù
 characteristic equation	特征方程	tè zhēng fāng chéng
× chi-squared test	卡方检验	kǎ fāng jiǎn yàn
% coefficient of restitution	恢复系数	huī fù xì shù
× coefficients	系数	xì shù
 complementary function	余函数	yú hán shù
 completing the square	配方法	pèi fāng fǎ
 complex number	复数	fù shù
[] confidence interval	置信区间	zhì xìn qū jiān
 conical pendulum	圆锥摆	yuán zhuī bǎi
 conjecture	猜想	cāi xiǎng
 conservation of momentum	动量守恒	dòng liàng shǒu héng
 constant acceleration	匀加速	yún jiā sù

English	中文	Pinyin
 contingency table	列联表	liè lián biǎo
 convergent	收敛	shōu liǎn
 coplanar forces	共面力	gòng miàn lì
 cumulative distribution function	累积分布函数	lěi jī fēn bù hán shù
 de Moivre's theorem	棣莫弗定理	dì mò fú dìng lǐ
 degrees of freedom	自由度	zì yóu dù
 determinant	行列式	háng liè shì
 diagonal matrix	对角矩阵	duì jiǎo jǔ zhèn
 differential equation	微分方程	wēi fēn fāng chéng
 discriminant	判别式	pàn bié shì
 eigenvalues	特征值	tè zhēng zhí
 eigenvector	特征向量	tè zhēng xiàng liàng
 elastic potential energy	弹性势能	tán xìng shì néng
 enlargement	放大	fàng dà
 equilibrium	平衡	píng héng
 Further Mechanics	进阶力学	jìn jiē lì xué
 Further Probability & Statistics	进阶概率统计	jìn jiē gài lǜ tǒng jì
 Further Pure Mathematics	进阶纯数学	jìn jiē chún shù xué
 general solution	通解	tōng jiě
 geometric transformation	几何变换	jǐ hé biàn huàn
 goodness of fit	拟合优度	nǐ hé yōu dù
 Hooke's law	胡克定律	hú kè dìng lǜ
 horizontal circle	水平圆	shuǐ píng yuán

English	中文	Pinyin
 hyperbolic functions	双曲函数	shuāng qū hán shù
 hypothesis test	假设检验	jiǎ shè jiǎn yàn
 identity matrix	单位矩阵	dān wèi jǔ zhèn
 independence	独立性	dú lì xìng
 inductive proof	归纳证明	guī nà zhèng míng
 integrating factor	积分因子	jī fēn yīn zǐ
 invariant lines	不变直线	bù biàn zhí xiàn
 invariant points	不变点	bù biàn diǎn
 inverse hyperbolic functions	反双曲函数	fǎn shuāng qū hán shù
 inverse matrix	逆矩阵	nì jǔ zhèn
 lamina	薄片	báo piàn
 x^2 logarithmic form	对数形式	duì shù xíng shì
 $\sum$ Maclaurin's series	麦克劳林级数	mài kè láo lín jí shù
 mathematical induction	数学归纳法	shù xué guī nà fǎ
 matrix	矩阵	jǔ zhèn
 matrix equation	矩阵方程	jǔ zhèn fāng chéng
 median	中位数	zhōng wèi shù
 method of differences	差分法	chā fēn fǎ
 modulus of elasticity	弹性模量	tán xìng mó liàng
 moment	力矩	lì jǔ
 Newton's experimental law	牛顿实验定律	niú dùn shí yàn dìng lǜ
 non-parametric test	非参数检验	fēi cān shù jiǎn yàn
 normal contact force	法向接触力	fǎ xiàng jiē chù lì

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 oblique asymptote	斜渐近线	xié jiàn jìn xiàn
 oblique impact	斜碰撞	xié pèng zhuàng
$\div$ partial fractions	部分分式	bù fèn fēn shì
 particular integral	特积分	tè jī fēn
 particular solution	特解	tè jiě
% percentiles	百分位数	bǎi fēn wèi shù
 plane	平面	píng miàn
 polar coordinates	极坐标	jí zuò biāo
 polar curves	极坐标曲线	jí zuò biāo qū xiàn
 pooled estimate	合并估计	hé bìng gū jì
 probability density function	概率密度函数	gài lǜ mì dù hán shù
 probability generating function	概率母函数	gài lǜ mǔ hán shù
 projectile	抛射体	pāo shè tǐ
$\div$ rational function	有理函数	yǒu lǐ hán shù
 reduction formula	递推公式	dì tuī gōng shì
 reflection	反射	fǎn shè
Riemann sum	黎曼和	lí màn hé
$\sqrt{\quad}$ roots	根	gēn
 roots of unity	单位根	dān wèi gēn
 rotation	旋转	xuán zhuǎn
 separable variables	可分离变量	kě fēn lí biàn liàng
 shear	切变	qiē biàn
$\pm$ sign test	符号检验	fú hào jiǎn yàn

English	中文	Pinyin
 singular matrix	奇异矩阵	qí yì jǔ zhèn
 skew lines	异面直线	yì miàn zhí xiàn
$\rightarrow$ sliding	滑动	huá dòng
$\leftrightarrow$ stretch	拉伸	lā shēn
 substitution	代换	dài huàn
∞ sum to infinity	无穷和	wú qióng hé
 surface area of revolution	旋转曲面面积	xuán zhuǎn qū miàn miàn jī
 symmetric functions	对称函数	duì chèn hán shù
 symmetry	对称	duì chèn
 theoretical distribution	理论分布	lǐ lùn fēn bù
 toppling	翻倒	fān dǎo
 trajectory	轨迹	guǐ jì
 turning points	驻点	zhù diǎn
 variable force	变力	biàn lì
$\times$ vector product	向量积	xiàng liàng jī
 vectors	向量	xiàng liàng
 vertical circle	竖直圆	shù zhí yuán
Σ Wilcoxon rank-sum test	威尔科克森秩和检验	wēi ěr kē kè sēn zhì hé jiǎn yàn
 Wilcoxon signed-rank test	威尔科克森符号秩检验	wēi ěr kē kè sēn fú hào zhì jiǎn yàn
 zero matrix	零矩阵	líng jǔ zhèn