inear equation	Chapter 1		
でいまない	linear equation	[P2]	线性方程
systems of linear equations (linear system) [P3] 线性方程组 solution [P3] 解集 tuple [P3] 数组 equivalent [P3] 等价 equivalent system [P3] 等价系统、等价方程组 consistent [P4] 相容 inconsistent linear system [P4] 不相容 cossistent linear system 有解)的线性方程组 inconsistent linear system [P5] 系数矩阵 coefficient matrix [P5] 增少阵性 coefficient matrix [P6] 增少阵性 elementary operations [P7] 初等行变换 elementary row operation [P7] 初等行变换 row equivalent [P7] 初等行变换 row equivalent matrix [P7] 初等行变换 elementary row operation [P7] 初等行变换 row equivalent matrix [P1] 抗矩阵 leading entry [P1] 抗矩阵 eduivalent matrix [P1] 抗矩阵 eduivalent form (row echelon form) [P14]	coefficient	[P2]	系数
P3	constant term	[讲义-P1]	常数 (项)
P3	systems of linear equations (linear system)	[P3]	线性方程组
Equivalent [P3] 数组 Equivalent [P3] 等价 等价 等价 字句 字句 字句 字句 字句 字句 字句 字	solution	[P3]	解
equivalent [P3] 等价 equivalent system [P3] 等价系统、等价方程组 consistent [P4] 相容 inconsistent [P4] 不相容 consistent linear system 相容(有解)的线性方程组 coefficient matrix [P5] 系数矩阵 augmented matrix [P5] 相序等(无解)的线性方程组 celementary operations [P7] 初等行变换 elementary row operation [P7] 初等行变换 row equivalent [P7] 打等价(矩阵) equivalent matrix [讲义-P3] 等价矩阵 echolon form (row echelon form) [P14] 先导元素 entry of matrix 矩阵的元素 echelon form (row echelon form) [P14] 所梯形 Gaussian elimination [P14] 简化阶梯形 Gaussian elimination [P14] 简化阶梯形 Gaussian elimination of variables 消元法 row reduced [P15] 行化筒 pivot column [P16] 主元位置 pivot column [P16] 主元列 pivot column [P16] 主元列 <	solution set	[P3]	解集
equivalent system [P3] 等价系统、等价方程组 consistent [P4] 相容 inconsistent [P4] 不相容	tuple	[P3]	数组
P4	equivalent	[P3]	等价
inconsistent inear system 相容(有解)的线性方程组 inconsistent linear system 不相容(无解)的线性方程组 inconsistent linear system 不相容(无解)的线性方程组 coefficient matrix [P5] 系数矩阵 augmented matrix [P5] 增广矩阵 elementary operations [P7] 初等变换 elementary operations [P7] 初等变换 row equivalent [P7] 有等价(矩阵) equivalent matrix [讲义-P3] 等价矩阵 equivalent matrix [讲义-P3] 等价矩阵 equivalent matrix [讲义-P3] 等价矩阵 entry of matrix 矩阵的元素 echelon form (row echelon form) [P14]	equivalent system	[P3]	等价系统,等价方程组
consistent linear system相容(有解)的线性方程组inconsistent linear system不相容(无解)的线性方程组coefficient matrix[P5]系数矩阵augmented matrix[P7]初等变换elementary operations[P7]初等行变换elementary row operation[P7]行等价(矩阵)equivalent matrix[讲义-P3]等价矩阵Leading entry[P14]先导元素entry of matrix矩阵的元素echelon form (row echelon form)[P14]阶梯形reduced echelon form (reduced row echelon form)[P14]简化阶梯形Gaussian elimination[P14]简化阶梯形the elimination of variables消元法row reduced[P15]行化简pivot position[P16]主元位置pivot column[P16]主元位置pivot quard phase[P20]自上(向下)阶段backward phase[P20]自上(向下)阶段backward phase[P20]自市(向上)阶段backward phase[P20]自中元free variable[P20]自由变元general solution[P21]一般解,通解back-substitution[P22]回代法,侧转代入vector[P28]数量,纯量,无向量scalar[P28]数量,纯量,无向量linear combination[P30]平行四边形法则	consistent	[P4]	相容
miconsistent linear system coefficient matrix	inconsistent	[P4]	不相容
coefficient matrix augmented matrix [P5] 增广矩阵 elementary operations [P7] 初等变换 elementary row operation [P7] 初等行变换 row equivalent [P7] 行等价(矩阵) equivalent matrix [排义-P3] 等价矩阵 Leading entry [P14] 先导元素 entry of matrix Eechelon form (row echelon form) [P14] 阶梯形 reduced echelon form (reduced row echelon form) [P14] 简化阶梯形 Gaussian elimination [P14]脚注 高斯消元法 the elimination of variables row reduced [P15] 行化简 pivot position [P16] 主元位置 pivot column [P16] 主元列 pivot [P17] 主元 forward phase [P20] 自上(向下)阶段 backward phase [P20] 自上(向下)阶段 backward phase [P20] 自由变元 general solution [P21] 一般解,通解 back-substitution [P22] 回代法,侧转代入 vector [P28] 购量,矢量 scalar [P28] 数量,纯量,无向量 parallelogram rule [P30] 平行四边形法则 linear combination	consistent linear system		相容(有解)的线性方程组
augmented matrix elementary operations elementary row operation prow equivalent equivalent matrix leading entry entry of matrix echelon form (row echelon form) freduced echelon form (reduced row echelon form) frow reduced frow reduced frow reduced from (p14) from from (p14) from from from from from from from from	inconsistent linear system		不相容(无解)的线性方程组
elementary operations elementary row operation [P7] 初等行变换 row equivalent equivalent matrix [讲义-P3] 等价矩阵 Leading entry entry of matrix Ephonz echelon form (row echelon form) [P14] 所梯形 reduced echelon form (reduced row echelon form) [P14] 简化阶梯形 Gaussian elimination [P14] 脚注 高斯消元法 the elimination of variables row reduced [P15] 行化简 pivot position [P16] 主元位置 pivot column [P16] 主元列 pivot [P17] 主元 forward phase [P20] 自上(向下)阶段 backward phase [P20] 自上(向下)阶段 basic variable [P20] 自上(向下)阶段 basic variable [P20] 自由变元 free variable [P20] 自由变元 general solution [P21] 一般解,通解 back-substitution [P22] 回代法,侧转代入 vector [P28] 购量,矢量 scalar [P28] 数量,纯量,无向量 parallelogram rule [P30] 平行四边形法则 linear combination [P32] 线性组合	coefficient matrix	[P5]	系数矩阵
elementary row operation [P7] 初等行变换 row equivalent [P7] 行等价(矩阵) equivalent matrix [讲义-P3] 等价矩阵 Leading entry [P14] 先导元素 entry of matrix 矩阵的元素 echelon form (row echelon form) [P14] 阶梯形 reduced echelon form (reduced row echelon form) [P14] 简化阶梯形 Gaussian elimination [P14] 期注 高斯消元法 the elimination of variables 消元法 row reduced [P15] 行化简 pivot position [P16] 主元位置 pivot column [P16] 主元列 pivot column [P17] 主元 forward phase [P20] 自上(向下)阶段 backward phase [P20] 自上(向下)阶段 basic variable [P20] 基本变元 free variable [P20] 自由变元 general solution [P21] 一般解,通解 back-substitution [P22] 回代法,侧转代入 vector [P28] 向量,矢量 scalar [P28] 数量,纯量,无向量 parallelogram rule [P30] 뫶性组合	augmented matrix	[P5]	增广矩阵
row equivalent	elementary operations	[P7]	初等变换
equivalent matrix Leading entry entry of matrix entry of matrix echelon form (row echelon form) reduced echelon form (reduced row echelon form) Gaussian elimination [P14] finch	elementary row operation	[P7]	初等行变换
Leading entry[P14]先导元素entry of matrix矩阵的元素echelon form (row echelon form)[P14]阶梯形reduced echelon form (reduced row echelon form)[P14]简化阶梯形Gaussian elimination[P14]脚注高斯消元法the elimination of variables消元法row reduced[P15]行化简pivot position[P16]主元位置pivot column[P16]主元列pivot q phase[P20]自上(向下)阶段backward phase[P20]自下(向上)阶段basic variable[P20]基本变元free variable[P20]自由变元general solution[P21]一般解,通解back-substitution[P22]回代法,侧转代入vector[P28]向量,矢量scalar[P28]数量,纯量,无向量parallelogram rule[P30]平行四边形法则linear combination[P32]线性组合	row equivalent	[P7]	行等价 (矩阵)
entry of matrix echelon form (row echelon form) reduced echelon form (reduced row echelon form) [P14] 防梯形 Gaussian elimination [P14] 脚注 高斯消元法 the elimination of variables row reduced [P15] 行化简 pivot position [P16] 主元位置 pivot column [P16] 主元列 pivot [P17] 主元 forward phase [P20] 自上(向下)阶段 backward phase [P20] 自下(向上)阶段 basic variable [P20] 基本变元 free variable [P20] 自由变元 general solution [P21] 一般解,通解 back-substitution [P22] 回代法,侧转代入 vector [P28] 向量,矢量 scalar [P28] 数量,纯量,无向量 parallelogram rule [P30] 线性组合	equivalent matrix	[讲义-P3]	等价矩阵
echelon form (row echelon form) [P14] 阶梯形 reduced echelon form (reduced row echelon form) [P14] 简化阶梯形 Gaussian elimination [P14]脚注 高斯消元法 the elimination of variables 消元法 row reduced [P15] 行化简 pivot position [P16] 主元位置 pivot column [P16] 主元列 pivot [P17] 主元 forward phase [P20] 自上(向下)阶段 backward phase [P20] 自下(向上)阶段 basic variable [P20] 自由变元 free variable [P20] 自由变元 general solution [P21] 一般解,通解 back-substitution [P22] 回代法,侧转代入 vector [P28] 向量,矢量 scalar [P28] 数量,纯量,无向量 parallelogram rule [P30] 线性组合	Leading entry	[P14]	先导元素
reduced echelon form (reduced row echelon form) Gaussian elimination [P14] 脚注 高斯消元法 the elimination of variables	entry of matrix		矩阵的元素
Gaussian elimination [P14]脚注 高斯消元法 the elimination of variables row reduced [P15] 行化简 pivot position [P16] 主元位置 pivot column [P16] 主元列 pivot [P17] 主元 forward phase [P20] 自上(向下)阶段 backward phase [P20] 自下(向上)阶段 basic variable [P20] 基本变元 free variable [P20] 自由变元 general solution [P21] 一般解,通解 back-substitution [P22] 回代法,侧转代入 vector [P28] 向量,矢量 scalar [P28] 数量,纯量,无向量 parallelogram rule [P30] 平行四边形法则 linear combination	echelon form (row echelon form)	[P14]	阶梯形
#元法 row reduced [P15] 行化筒 pivot position [P16] 主元位置 pivot column [P16] 主元列 pivot column [P17] 主元 forward phase [P20] 自上(向下)阶段 backward phase [P20] 自下(向上)阶段 basic variable [P20] 基本变元 free variable [P20] 自由变元 general solution [P21] 一般解,通解 back-substitution [P22] 回代法,侧转代入 vector [P28] 向量,矢量 scalar [P28] 数量,纯量,无向量 parallelogram rule [P30] 线性组合	reduced echelon form (reduced row echelon form)	[P14]	简化阶梯形
row reduced [P15] 行化简 pivot position [P16] 主元位置 pivot column [P16] 主元列 pivot [P17] 主元 forward phase [P20] 自上(向下)阶段 backward phase [P20] 自下(向上)阶段 basic variable [P20] 基本变元 free variable [P20] 自由变元 general solution [P21] 一般解,通解 back-substitution [P22] 回代法,侧转代入 vector [P28] 向量,矢量 scalar [P28] 数量,纯量,无向量 parallelogram rule [P30] 平行四边形法则 linear combination [P32] 线性组合	Gaussian elimination	[P14]脚注	高斯消元法
pivot position [P16] 主元位置 pivot column [P16] 主元列 pivot [P17] 主元 forward phase [P20] 自上(向下)阶段 backward phase [P20] 自下(向上)阶段 basic variable [P20] 基本变元 free variable [P20] 自由变元 general solution [P21] 一般解,通解 back-substitution [P22] 回代法,侧转代入 vector [P28] 向量,矢量 scalar [P28] 数量,纯量,无向量 parallelogram rule [P30] 平行四边形法则 linear combination [P32] 线性组合	the elimination of variables		消元法
pivot column [P16] 主元列 pivot [P17] 主元 forward phase [P20] 自上(向下)阶段 backward phase [P20] 自下(向上)阶段 basic variable [P20] 基本变元 free variable [P20] 自由变元 general solution [P21] 一般解,通解 back-substitution [P22] 回代法,侧转代入 vector [P28] 向量,矢量 scalar [P28] 数量,纯量,无向量 parallelogram rule [P30] 平行四边形法则 linear combination [P32] 线性组合	row reduced	[P15]	行化简
pivot [P17] 主元 forward phase [P20] 自上(向下)阶段 backward phase [P20] 自下(向上)阶段 basic variable [P20] 基本变元 free variable [P20] 自由变元 general solution [P21] 一般解,通解 back-substitution [P22] 回代法,侧转代入 vector [P28] 向量,矢量 scalar [P28] 数量,纯量,无向量 parallelogram rule [P30] 平行四边形法则 linear combination [P32] 线性组合	pivot position	[P16]	主元位置
forward phase [P20] 自上(向下)阶段 backward phase [P20] 自下(向上)阶段 basic variable [P20] 基本变元 free variable [P20] 自由变元 general solution [P21] 一般解,通解 back-substitution [P22] 回代法,侧转代入 vector [P28] 向量,矢量 scalar [P28] 数量,纯量,无向量 parallelogram rule [P30] 平行四边形法则 linear combination [P32] 线性组合	pivot column	[P16]	主元列
backward phase [P20] 自下(向上)阶段 basic variable [P20] 基本变元 free variable [P20] 自由变元 general solution [P21] 一般解,通解 back-substitution [P22] 回代法,侧转代入 vector [P28] 向量,矢量 scalar [P28] 数量,纯量,无向量 parallelogram rule [P30] 平行四边形法则 linear combination [P32] 线性组合	pivot	[P17]	主元
basic variable [P20] 基本变元 free variable [P20] 自由变元 general solution [P21] 一般解,通解 back-substitution [P22] 回代法,侧转代入 vector [P28] 向量,矢量 scalar [P28] 数量,纯量,无向量 parallelogram rule [P30] 平行四边形法则 linear combination [P32] 线性组合	forward phase	[P20]	自上(向下)阶段
free variable [P20] 自由变元 general solution [P21] 一般解,通解 back-substitution [P22] 回代法,侧转代入 vector [P28] 向量,矢量 scalar [P28] 数量,纯量,无向量 parallelogram rule [P30] 平行四边形法则 linear combination [P32] 线性组合	backward phase	[P20]	自下(向上)阶段
general solution [P21] 一般解,通解 back-substitution [P22] 回代法,侧转代入 vector [P28] 向量,矢量 scalar [P28] 数量,纯量,无向量 parallelogram rule [P30] 平行四边形法则 linear combination [P32] 线性组合	basic variable	[P20]	基本变元
back-substitution [P22] 回代法,侧转代入 vector [P28] 向量,矢量 scalar [P28] 数量,纯量,无向量 parallelogram rule [P30] 平行四边形法则 linear combination [P32] 线性组合	free variable	[P20]	自由变元
vector[P28]向量,矢量scalar[P28]数量,纯量, 无向量parallelogram rule[P30]平行四边形法则linear combination[P32]线性组合	general solution	[P21]	一般解,通解
scalar[P28]数量,纯量, 无向量parallelogram rule[P30]平行四边形法则linear combination[P32]线性组合	back-substitution	[P22]	回代法,侧转代入
parallelogram rule [P30] 平行四边形法则 linear combination [P32] 线性组合	vector	[P28]	向量, 矢量
linear combination [P32] 线性组合	scalar	[P28]	数量,纯量, 无向量
• • • • • • • • • • • • • • • • • • • •	parallelogram rule	[P30]	平行四边形法则
generated (spanned)	linear combination	[P32]	线性组合
	generated (spanned)	[P35]	生成(张成)

product	[P45]	乘积
homogeneous systems	[P50]	齐次系统,齐次线性方程组
trivial solution	[P50]	平凡解,零解
nontrivial solution	[P51]	非平凡解, 非零解
parametric vector form	[P52]	参数向量形式
nonhomogeneous systems	[P50]	非齐次线性方程组
linear independent	[p65]	线性相关
linearly independent	[P65]	线性无关
linear transformation	[P73]	线性变换
domain	[P73]	值域
shear transformation	[P76]	剪切变换
contraction	[P77]	压缩变换
dilation	[P77]	拉伸变换