

mathematics



1. Prime factorization
2. Greatest common denominator
3. Decimal to n-ary conversion (n=2~9)
4. Remainder Calculation
5. Polynomial calculation
6. Permutations and Combinations
7. Complex Number Arithmetic
8. Vector operations
 9. Moving and rotating the coordinate axes
10. 4×4 matrix *For FX-502P
11. 3-dimensional linear simultaneous equations *For FX-502P
12. Cubic equation
*For FX-502P
13. Root finding by Newton's method
14. Root-finding by bisection method
15. Definite integrals by Simpson's method
16. First-order ordinary differential equation
17. Bessel functions of the first kind, order n

Electricity/Electronics

1. Y $\triangle \longleftrightarrow$ transformation
2. Impedance of series and parallel circuits
3. Impedance of a series resonant circuit
4. Active LPF design
5. Active HPF design
6. Active BPF design
7. Transmission Line Impedance
8. T-shaped and sword-shaped attenuators
9. Minimum loss matching
10. Distributed constant circuit
11. Basic transistor amplifier circuit
※For FX-502P ★11-1, 11-2
12. Four-Terminal Parameter Conversion (Z, Y, G, H, F) ★12-1, 12-2

machine

Edited

1. Cantilever beam with concentrated load
2. Cantilever beam with distributed load
3. Simply supported beam with concentrated load
4. Simply supported beam with distributed load
5. Fixed-end beam with concentrated load
6. Fixed-end beam with distributed load
7. Free vibration
8. Forced vibration
9. Displacement, velocity and acceleration of pistons in piston crank engines
10. Internal Combustion Engine Horsepower and shaft torque calculation
11. Cylindrical coil spring design
12. Thermal Stress
13. Belt length

Physics/Chemistry

1. Simple harmonic motion

2. Parabolic Motion
3. Conductive heat transfer in dissimilar solid layers
4. First-order reaction rate, second-order reaction rate
5. Ideal gas equation of state

Statistics edition

1. Deviation value
2. Average (geometric, harmonic)
- 3.6 month moving average
- 4.12 month moving average
*For FX-502P
5. Correlation coefficient
6. Spearman's rank correlation coefficient
7. Regression analysis (linear, exponential, power)
8. Quadratic Regression Analysis
9. Binomial distribution, Poisson distribution
10. Normal distribution
11. Chi-squared distribution
12. F distribution
*For FX-502P
13. t distribution
14. F-test
15. t-test
- 16.2×2 contingency table
- 17.m×n contingency table
*For FX-502P
18. One-way analysis of variance
19. Two-way variance analysis *For
FX-502P
20. Multiple correlation
coefficient *For FX-502P

Medical edition

1. Biorhythm
2. Urea removal
- 3.Body surface area
4. Red blood cell index
5. Blood acidity
6. Oxygen saturation and oxygen content in blood *For FX-502P
7. Discomfort index

Surveying edition

1 Addition, Subtraction, Multiplication and Division of Angles

2. Coordinate calculation by azimuth and distance
3. Karakasa Traverse
4. Open Traverse 1
5. Open Traverse 2
6. Inverse calculation (single, radial)
7. Reverse Calculation (Continuous)
8. Triangle 1 (Find
the other side from the two sides)
9. Triangle 2 (Calculate
the area from two sides and angles)
10. Triangle 3
(Calculate area and height from three sides)
11. Triangle Solution 1 (3 sides known)
12. Solution of a triangle 2 (2 sides and angle known)
13. Solution of triangles 3 (2 sides of angle known)
14. Three slope area calculation
15. Coordinate area calculation
16. Calculate area from azimuth and distance
17. Closure Traverse 1 (Difference between Close and Close)
18. Closing traverse 2 (closing
error, accuracy, correction)
*For FX-502P
19. Stadia calculation

20. Midpoint coordinates

21. Perpendicular and distance calculation 1 (3 points known)
22. Calculating Perpendicular Lines and Distances 2
(2 points, 1 direction known)
23. Intersection coordinates 1 (4 points known)
24. Intersection coordinates 2 (3 points, 10,000 positions known)
25. Intersection coordinates 3 (2 points, 2 directions known)
26. Intersection coordinates 4 (circle and line)
27. Intersection coordinates 5 (circle and circle)
28. Simple curve
29. Find the area and arc of a
circular segment using its chord and radius
30. Vertical Curves
31. Street corner apex pile driving 1 ($0^\circ < \theta < 90^\circ$)
32. Street corner apex pile driving 2 ($90^\circ < \theta < 180^\circ$)
33. Offset method area calculation (trapezoid
area calculation)
34. Corner cut calculation
35. Trapezoidal area division
36. Calculation of Interruption of Pixel Area 1 (Parallel to Opposite Side)
37. Image Interrupt Calculation 2 (1 side fixed)
38. Land cut calculation 3 (fixed angle) *For FX-502P

Finance edition

1. Loan Calculation 1 (Equal Monthly Payments)
2. Loan Calculation 2 (Monthly Interest Rate)
3. Loan calculation 3 (with bonus)
4. Installment calculation
5. Compound interest pension calculation
6. Calculation of Discounting of Commercial Papers
7. Depreciation Calculation
8. Calendar calculation (number
of days, reverse number of days, day
of the week) *For FX-S02P
9. Classification and tabulation and composition ratio calculation
10. Vertical and horizontal tabulation calculations
11. Denomination calculation

Navigation edition

1. Celestial measurements
2. Wide-area navigation
3. Rhumb Line Navigation

Game-edition

1. Number Guessing Game
2. Artillery Game
3. Whack-a-Mole
4. Number sorting game
5. Hit and Plow
6. Stone-picking Game 1
7. Stone-picking Game 2
*For FX-502P ★7-1,7-2.
8. Bug Hunt Game
*For FX-502P

Music edition

1. Sakura Sakura
2. Light
3. The Moon Over the Ruined Castle
4. For Elise *For FX-502P
5. Forbidden Play *For
FX-502P ★5-1, 5-2.
6. Neapolitan Tarantella *For
FX-502P