

# Basics of Network Analysis

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|--------------|---------------|--------------|
| 1. (b)       | 2. (b)        | 3. (a)       |
| 4. (a)       | 5. (80)       | 6. (c)       |
| 7. (b)       | 8. (25)       | 9. (6.67)    |
| 10. (3.24)   | 11. (864)     | 12. (a)      |
| 13. (0.46)   | 14. (c)       | 15. (345.6)  |
| 16. (a)      | 17. (7.69)    | 18. (5)      |
| 19. (d)      | 20. (a)       | 21. (a)      |
| 22. (b)      | 23. (1.34)    | 24. (7.5)    |
| 25. (d)      | 26. (a)       | 27. (b)      |
| 28. (a)      | 29. (a)       | 30. (b)      |
| 31. (c)      | 32. (b)       | 33. (d)      |
| 34. (4)      | 35. (100)     | 36. (c)      |
| 37. (1.71)   | 38. (a)       | 39. (a)      |
| 40. (a)      | 41. (c)       | 42. (0.196)  |
| 43. (1.5)    | 44. (0.50)    | 45. (b)      |
| 46. (2.457)  | 47. (a, d)    | 48. (c, d)   |
| 49. (c)      | 50. (b)       | 51. (b, c)   |
| 52. (a, c)   | 53. (c)       | 54. (d)      |
| 55. (100)    | 56. (1.064)   | 57. (a, d)   |
| 58. (0.9375) | 59. (a, b, c) | 60. (-0.786) |
| 61. (100)    |               |              |



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## 02

# Steady State Sinusoidal Analysis

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|------------|-------------|--------------|
| 1. (d)     | 2. (1)      | 3. (a)       |
| 4. (a)     | 5. (c)      | 6. (b)       |
| 7. (b)     | 8. (d)      | 9. (b)       |
| 10. (7.96) | 11. (1.732) | 12. (0)      |
| 13. (a)    | 14. (a)     | 15. (4)      |
| 16. (c, d) | 17. (b)     | 18. (8)      |
| 19. (b)    | 20. (80)    | 21. (a)      |
| 22. (c)    | 23. (a, d)  | 24. (0.288)  |
| 25. (b, c) | 26. (a)     | 27. (b)      |
| 28. (a)    | 29. (c)     | 30. (c)      |
| 31. (c)    | 32. (c)     | 33. (a)      |
| 34. (c)    | 35. (c)     | 36. (d)      |
| 37. (c)    | 38. (89.44) | 39. (b)      |
| 40. (b)    | 41. (1)     | 42. (a)      |
| 43. (a)    | 44. (b)     | 45. (b)      |
| 46. (c)    | 47. (b)     | 48. (1050)   |
| 49. (a)    | 50. (c)     | 51. (a)      |
| 52. (a)    | 53. (10.95) | 54. (158.35) |
| 55. (b)    | 56. (6)     | 57. (14.14)  |
| 58. (1)    | 59. (152)   | 60. (a)      |
| 61. (8)    | 62. (a)     |              |

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# Network Theorems

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|------------|--------------|--------------|
| 1. (b)     | 2. (a)       | 3. (160)     |
| 4. (5)     | 5. (b)       | 6. (d)       |
| 7. (b)     | 8. (18.81)   | 9. (50)      |
| 10. (4.73) | 11. (-0.2)   | 12. (179.97) |
| 13. (d)    | 14. (80)     | 15. (d)      |
| 16. (c)    | 17. (11)     | 18. (d)      |
| 19. (b)    | 20. (c)      | 21. (a)      |
| 22. (b)    | 23. (257.99) | 24. (1)      |
| 25. (c)    | 26. (b)      | 27. (1.797)  |
| 28. (c)    | 29. (c)      | 30. (0.8)    |
| 31. (a)    | 32. (b)      | 33. (a, c)   |
| 34. (c)    | 35. (2.69)   | 36. (4.78)   |
| 37. (d)    | 38. (a)      | 39. (c)      |
| 40. (b)    | 41. (2)      | 42. (b)      |
| 43. (c)    | 44. (b)      | 45. (7.33)   |
| 46. (Sol)  | 47. (15.625) |              |

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## 04

# Transient State Analysis

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|------------|--------------|------------------|
| 1. (b)     | 2. (b)       | 3. (a)           |
| 4. (b)     | 5. (c)       | 6. (d)           |
| 7. (b)     | 8. (d)       | 9. (b)           |
| 10. (6.99) | 11. (d)      | 12. (b)          |
| 13. (200)  | 14. (a)      | 15. (b)          |
| 16. (a)    | 17. (b)      | 18. (c)          |
| 19. (b)    | 20. (c)      | 21. (a)          |
| 22. (a)    | 23. (c)      | 24. (2.54)       |
| 25. (a)    | 26. (5.41)   | 27. (54.14)      |
| 28. (b)    | 29. (b)      | 30. (c)          |
| 31. (c)    | 32. (d)      | 33. (1)          |
| 34. (0.25) | 35. (c)      | 36. (d)          |
| 37. (b)    | 38. (b)      | 39. (c)          |
| 40. (800)  | 41. (a)      | 42. (a)          |
| 43. (3.02) | 44. (a)      | 45. (b)          |
| 46. (c)    | 47. (28.036) | 48. (-3.75)      |
| 49. (d)    | 50. (115.12) | 51. (81.87)      |
| 52. (b)    | 53. (d)      | 54. (a)          |
| 55. (a)    | 56. (b)      | 57. (a, b, c, d) |

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# Two-Port Network Parameters

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|-------------|------------|------------------|
| 1. (a)      | 2. (4)     | 3. (85)          |
| 4. (0.5)    | 5. (d)     | 6. (c)           |
| 7. (c)      | 8. (c)     | 9. (a)           |
| 10. (0.35)  | 11. (b)    | 12. (c)          |
| 13. (d)     | 14. (c, d) | 15. (20)         |
| 16. (b)     | 17. (b)    | 18. (a)          |
| 19. (d)     | 20. (c)    | 21. (d)          |
| 22. (11.11) | 23. (d)    | 24. (b)          |
| 25. (c)     | 26. (b)    | 27. (3)          |
| 28. (c)     | 29. (d)    | 30. (a, b, c, d) |
| 31. (a)     | 32. (b)    | 33. (a)          |
| 34. (-0.83) | 35. (c)    | 36. (13)         |
| 37. (0.233) | 38. (a)    | 39. (a)          |
| 40. (24)    | 41. (400)  | 42. (a)          |

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# Filters and Graph Theory

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|---------|---------|--------|
| 1. (c)  | 2. (d)  | 3. (c) |
| 4. (a)  | 5. (c)  | 6. (b) |
| 7. (c)  | 8. (a)  | 9. (c) |
| 10. (c) | 11. (d) |        |

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