

A second topology crossword puzzle Created by Jean Goubault-Larrecq

ACROSS

1. Water of Valladolid
5. Talk rapidly and unintelligibly
10. Confused
15. The finest possible topology
17. Bovine
18. Fat: prefix
19. Scottish sweetheart
20. Landscape painter Jean-Baptiste Camille
21. ___-Waszkiewicz Theorem: characterizes Yoneda-completeness (Thm. 7.4.27)
23. Politically active
25. Gossip
26. Tradition and knowledge
27. To acknowledge a debt
28. Canadian province
29. C
30. Musical conclusion
32. Binary coded decimal
34. Way-below itself (Def. 5.1.7)
37. A quotient in Top, e.g. (Ex. 4.12.11)
40. Classic car company
42. 128 cubic feet
43. IBM programming languages of the 60s
44. "All ___ is quite useless", Oscar Wilde quote
45. ___ the Last Dance, 2001 movie
46. Stolen
47. Gold or silver, e.g.
48. Single-___ race car
49. Whose specialization quasi-ordering is an ordering (Prop. 4.2.3)
52. Don't expect to remain 45-down in it
53. Not
54. Tychonoff, Urysohn, or Johnstone, e.g.
56. Go home?
57. Actor Alan or Cheryl
59. Wqo whose Hoare powerspace is not (Ex. 9.7.25)
60. Asian curd
61. ___ Vietoris: topology on sobrification (Def. 8.2.17)
63. In a Venetian blind
66. Oriental guard
68. Easily influenced
70. Had a meal
71. Author of Wozzeck
72. Country of Gangnam
74. Roman, e.g.
75. Studied c-spaces (Sec. 5.1.2)
76. Has finite infs and sups (Sec. 2.3.2)
79. In a foot
80. Northeastern state
81. Fundamental theorem of completely distributive lattices (Ex. 8.3.16)
82. Next to

1	2	3	4	5	6	7	8	9	10	11	12	13	14	
15				16				17		18				
19			20					21		22				
23		24					25			26				
27			28			29		30		31				
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		37				38		39				40	41	
	42					43						44		
45					46									
47				48						49	50		51	
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71						72		73				74		
75						76				77	78		79	
80														

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DOWN

1. The left one is free, the right one is forgetful (Sec. 5.5.2)
2. French writer, author of The Horseman on the Roof (Le Hussard sur le Toit)
3. You and me
4. Bank stmt.
5. Bacteria, e.g.
6. Lunch ___ a Skyscraper, famous photograph
7. Risk some money
8. Norse shapeshifter god
9. Drove out an evil spirit
10. Small rug
11. One discoverer of the formal ball construction (Section 7.3)
12. Chinese: prefix
13. Hopefully in Rome
14. Crosspiece on a pair of 17-across
16. A kind of ideal (Prop. 5.1.33)
22. Relates topology and order, first part (Sec. 8.1)
24. Can extract a finite one from any open cover, if compact (Def. 4.4.1)
25. Haircut
29. Second part of 22-down
31. Used to define the Scott topology (Def. 4.2.16)
33. Prefix with compact or open (Def. 5.2.3, 5.4.1)
34. Larger, as topology (Sec. 4.1.1)
35. Rubber
36. Least (Sec. 2.3.2)
38. ___-closed, a.k.a., saturated (Prop. 4.2.9)
39. Run with a long bounding stride
41. Hesitation
42. Precious 200 milligrams
45. Topological property defined by 22 and 29-down (Chap. 8)
46. Eider or scoter, e.g.
48. Mess
50. Messes
51. Set of pairs if binary (Sec. 3.1)
54. Practical way of organizing strategies (Sec. 7.6.2)
55. Aesop's also-ran
57. More tedious?
58. Set with a partial ordering (Sec. 2.3.1)
60. Change course
62. ___ mess!
64. Coffee in Venice, CA, or milk in Venice, It.
65. Principle of belief
66. Weird
67. Open ___ topology, similar to upper in hemi-metric spaces (Ex. 6.2.11)
69. Guilty, or not guilty
71. Scottish peak
73. D
77. Subconscious
78. Head of the US federal court system