%PDF-1.4 %• 4 0 obj (1 Setting of the problem) endobj 5 0 obj << /D (section.2) /S /GoTo >> endobj 8 0 obj (2 Pseudo-solid formulation of Bernoulli free boundary problems) endobj 9 0 obj << /D (section.3) /S /GoTo >> endobj 12 0 obj (3 Level set approach to the optimization problem) endobj 13 0 obj << /D (section.4) /S /GoTo >> endobj 16 0 obj (4 Discretization) endobj 17 0 obj << /D (subsection.4.1) /S /GoTo >> endobj 20 0 obj (4.1 Discretization of the state problem) endobj 21 0 obj << /D (subsection.4.2) /S /GoTo >> endobj 24 0 obj (4.2 Discrete optimization problem) endobj 25 0 obj << /D (subsection.4.3) /S /GoTo >> endobj 28 0 obj (4.3 Construction of the initial guess) endobj 29 0 obj << /D (subsection.4.4) /S /GoTo >> endobj 32 0 obj (4.4 Algebraic form and Sensitivity analysis) endobj 33 0 obj << /D (subsection.4.5) /S /GoTo >> endobj 36 0 obj (4.5 Optimization strategy using remeshing) endobj 37 0 obj << /D (section.5) /S /GoTo >> endobj 40 0 obj (5 Numerical examples) endobj 41 0 obj << /D (section.6) /S /GoTo >> endobj 44 0 obj (6 Conclusions) endobj 45 0 obj << /D [46 0 R /Fit] /S /GoTo >> endobj 51 0 obj << /Filter /FlateDecode /Length 2995 >> stream [illegible] endstream endobj 46 0 obj << /Type /Page /Annots [47 0 R 48 0 R] /Contents [51 0 R 461 0 R] /MediaBox [0 0 595.276 841.89] /Parent 62 0 R /Resources 50 0 R >> endobj 47 0 obj << /Type /Annot /Subtype /Link /A << /D (cite.toi08) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [0 1 0] /H /I /Rect [80.589 359.063 88.036 368.451] >> endobj 48 0 obj << /Type /Annot /Subtype /Link /A << /D (cite.flu97) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [0 1 0] /H /I /Rect [125.812 237.12 133.259 246.509] >> endobj 52 0 obj << /D [46 0 R /XYZ 76.953 794.712 null] >> endobj 53 0 obj << /D [46 0 R /XYZ 77.953 756.85 null] >> endobj 58 0 obj << /D [46 0 R /XYZ 77.953 511.225 null] >> endobj 50 0 obj << /Font << /F15 59 0 R /F24 55 0 R /F38 56 0 R /F39 61 0 R /F62 60 0 R /F67 54 0 R /F69 57 0 R /arXivStAmP 462 0 R >> /ProcSet [/PDF /Text] >> endobj 71 0 obj << /Filter /FlateDecode /Length 3785 >> stream [illegible] endstream endobj 70 0 obj << /Type /Page /Annots [49 0 R 65 0 R 66 0 R 67 0 R] /Contents 71 0 R /MediaBox [0 0 595.276 841.89] /Parent 62 0 R /Resources 69 0 R >> endobj 49 0 obj << /Type /Annot /Subtype /Link /A << /D (cite.toi08) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [0 1 0] /H /I /Rect [100.882 731.346 108.329 740.735] >> endobj 65 0 obj << /Type /Annot /Subtype /Link /A << /D (section.5) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [1 0 0] /H /I /Rect [439.847 512.197 447.294 525.647] >> endobj 66 0 obj << /Type /Annot /Subtype /Link /A << /D (AMS.2) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [1 0 0] /H /I /Rect [330.851 249.336 356.995 264.692] >> endobj 67 0 obj << /Type /Annot /Subtype /Link /A << /D (AMS.2) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [1 0 0] /H /I /Rect [450.906 155.331 477.05 170.687] >> endobj 72 0 obj << /D [70 0 R /XYZ 76.953 794.712 null] >> endobj 2 0 obj << /D [70 0 R /XYZ 77.953 428.175 null] >> endobj 76 0 obj << /D [70 0 R /XYZ 241.592 321.822 null] >> endobj 79 0 obj << /D [70 0 R /XYZ 489.539 321.822 null] >> endobj 80 0 obj << /D [70 0 R /XYZ 507.023 217.061 null] >> endobj 69 0 obj << /Font << /F15 59 0 R /F24 55 0 R /F34 73 0 R /F36 74 0 R /F38 56 0 R /F62 60 0 R /F64 77 0 R /F66 75 0 R /F67 54 0 R /F69 57 0 R /F77 78 0 R >> /ProcSet [/PDF /Text] >> endobj 98 0 obj << /Filter /FlateDecode /Length 4524 >> stream [illegible] endstream endobj 97 0 obj << /Type /Page /Annots [68 0 R 81 0 R 82 0 R 83 0 R 84 0 R 85 0 R 86 0 R 87 0 R 88 0 R 89 0 R] /Contents 98 0 R /MediaBox [0 0 595.276 841.89] /Parent 62 0 R /Resources 96 0 R >> endobj 68 0 obj << /Type /Annot /Subtype /Link /A << /D (cite.toi08) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [0 1 0] /H /I /Rect [493.616 744.895 501.063 754.284] >> endobj 81 0 obj << /Type /Annot /Subtype /Link /A << /D (cite.kar99) 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<< /Type /Annot /Subtype /Link /A << /D (cite.sou01) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [0 1 0] /H /I /Rect [109.978 428.042 117.425 437.245] >> endobj 88 0 obj << /Type /Annot /Subtype /Link /A << /D (cite.toi08) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [0 1 0] /H /I /Rect [309.634 428.151 317.081 437.539] >> endobj 89 0 obj << /Type /Annot /Subtype /Link /A << /D (AMS.2) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [1 0 0] /H /I /Rect [368.098 181.709 394.243 197.065] >> endobj 99 0 obj << /D [97 0 R /XYZ 76.953 794.712 null] >> endobj 6 0 obj << /D [97 0 R /XYZ 77.953 713.444 null] >> endobj 103 0 obj << /D [97 0 R /XYZ 174.128 258.507 null] >> endobj 106 0 obj << /D [97 0 R /XYZ 489.539 258.507 null] >> endobj 96 0 obj << /Font << /F15 59 0 R /F24 55 0 R /F34 73 0 R /F36 74 0 R /F38 56 0 R /F40 105 0 R /F62 60 0 R /F64 77 0 R /F66 75 0 R /F67 54 0 R /F69 57 0 R /F74 102 0 R /F77 78 0 R /F78 101 0 R /F79 104 0 R /F84 100 0 R >> /ProcSet [/PDF 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202.233 716.877] >> endobj 93 0 obj << /Type /Annot /Subtype /Link /A << /D (AMS.4) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [1 0 0] /H /I /Rect [229.165 701.52 255.309 714.422] >> endobj 94 0 obj << /Type /Annot /Subtype /Link /A << /D (AMS.4) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [1 0 0] /H /I /Rect
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1 0] /H /I /Rect [179.41 364.085 186.857 373.474] >> endobj 114 0 obj << /Type /Annot /Subtype /Link /A << /D (cite.toi08) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [0 1 0] /H /I /Rect [365.629 336.987 373.076 346.375] >> endobj 115 0 obj << /Type /Annot /Subtype /Link /A << /D (cite.osh88) /S /GoTo >> /BS << /S /S /W 1
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[119 0 R /XYZ 189.873 272.917 null] >> endobj 124 0 obj << /D [119 0 R /XYZ 213.394 187.717 null] >> endobj 125 0 obj << /D [119 0 R /XYZ 507.023 187.717 null] >> endobj 118 0 obj << /Font << /F15 59 0 R /F24 55 0 R /F34 73 0 R /F36 74 0 R /F38 56 0 R /F62 60 0 R /F64 77 0 R /F66 75 0 R /F67 54 0 R /F69 57 0 R /F77 78 0 R /F78
101 0 R /F79 104 0 R >> /ProcSet [/PDF /Text /ImageC] /XObject << /Im1 112 0 R >> >> endobj 132 0 obj << /Filter /FlateDecode /Length 3786 >> stream
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[131 0 R /XYZ 101.778 274.913 null] >> endobj 138 0 obj << /D [131 0 R /XYZ 483.845 222.966 null] >> endobj 130 0 obj << /Font << /F15 59 0 R /F24 55 0 R /F34 73 0 R /F36 74 0 R /F37 134 0 R /F40 105 0 R /F62 60 0 R /F64 77 0 R /F66 75 0 R /F67 54 0 R /F69 57 0 R /F74 102 0 R /F77 78 0 R /F78 101 0 R /F79 104 0 R >> /ProcSet
[/PDF /Text] >> endobj 149 0 obj << /Filter /FlateDecode /Length 3748 >> stream
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>> /Border [0 0 1] /C [0 1 0] /H /I /Rect [463.639 640.302 476.54 649.8] >> endobj 140 0 obj << /Type /Annot /Subtype /Link /A << /D (cite.wan06) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [0 1 0] /H /I /Rect [423.023 518.468 435.925 527.857] >> endobj 141 0 obj << /Type /Annot /Subtype /Link /A << /D (cite.che07) /S /GoTo
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754.284] >> endobj 168 0 obj << /Type /Annot /Subtype /Link /A << /D (equation.4.12) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [1 0 0] /H /I /Rect [252.833 715.844 265.734 727.186] >> endobj 181 0 obj << /Type /Annot /Subtype /Link /A << /D (AMS.2) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [1 0
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467.408] >> endobj 189 0 obj << /Type /Annot /Subtype /Link /A << /D (AMS.8) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [1 0 0] /H /I /Rect [336.025 338.135 367.863 352.348] >> endobj 190 0 obj << /Type /Annot /Subtype /Link /A << /D (equation.4.10) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [1 0
0] /H /I /Rect [315.261 178.183 328.162 189.524] >> endobj 191 0 obj << /Type /Annot /Subtype /Link /A << /D (AMS.8) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [1 0 0] /H /I /Rect [328.709 123.212 360.547 137.425] >> endobj 192 0 obj << /Type /Annot /Subtype /Link /A << /D (AMS.8) /S /GoTo >> /BS << /S /S /W 1
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R /F64 77 0 R /F67 54 0 R /F69 57 0 R /F74 102 0 R /F77 78 0 R /F78 101 0 R >> /ProcSet [/PDF /Text] >> endobj 247 0 obj << /Filter /FlateDecode /Length 3972 >> stream
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247 0 R /MediaBox [0 0 595.276 841.89] /Parent 177 0 R /Resources 245 0 R >> endobj 193 0 obj << /Type /Annot /Subtype /Link /A << /D (equation.4.13) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [1 0 0] /H /I /Rect [499.058 729.393 511.959 740.735] >> endobj 205 0 obj << /Type /Annot /Subtype /Link /A << /D
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232.58 645.89] >> endobj 209 0 obj << /Type /Annot /Subtype /Link /A << /D (equation.4.17) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0 1] /C [1 0 0] /H /I /Rect [290.822 496.705 303.724 508.046] >> endobj 210 0 obj << /Type /Annot /Subtype /Link /A << /D (equation.4.18) /S /GoTo >> /BS << /S /S /W 1 >> /Border [0 0
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460.7 580.4 896 722.6 1020.4 843.3 806.2 673.6 835.7 800.2 646.2 618.6 718.8 618.8 1002.4 873.9 615.8 720 413.2 413.2 413.2 1062.5 1062.5 434 564.4 454.5 460.2 546.7 492.9 510.4 505.6 612.3 361.7 429.7 553.2 317.1 939.8 644.7 513.5 534.8 474.4 479.5 491.3 383.7 615.2 517.4 762.5 598.1] endobj 384 0 obj [767.4 619.8 590.3 590.3 885.4 885.4 295.1 324.7 531.3 531.3 531.3 531.3 531.3 795.8 472.2 531.3 767.4 826.4 531.3 958.7 1076.8 826.4 295.1 295.1 531.3 885.4 531.3 885.4 826.4 295.1 413.2 413.2 531.3 826.4 295.1 354.2 295.1 531.3 531.3 531.3 531.3 531.3 531.3 531.3 531.3 531.3 531.3 531.3 295.1 295.1 295.1 826.4] endobj 385 0 obj [638.9 963 638.9 963 963 963 963 963 963 963 1222.2 638.9 638.9 963 963 963 963 963 963 963 963 963 963 963 963 963 963 1222.2 1222.2 963 963 1222.2 1222.2 638.9 638.9 1222.2 1222.2 1222.2 963 1222.2 1222.2 768.5 768.5 1222.2 1222.2 1222.2 963 365.7 1222.2 833.3 833.3 1092.6 1092.6 0 0 703.7 703.7 833.3 638.9 898.1 898.1 963 963 768.5 989.9 813.3 678.4 961.2 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389 0 obj [826.4 295.1 826.4 531.3 826.4 531.3 826.4 826.4 826.4 826.4 826.4 826.4 826.4 1062.5 531.3 531.3 826.4 826.4 826.4 826.4 826.4 826.4 826.4 826.4 826.4 826.4 826.4 1062.5 1062.5 826.4 826.4 1062.5 1062.5 531.3 531.3 1062.5 1062.5 1062.5 826.4 1062.5 1062.5 649.3 649.3 1062.5 1062.5 1062.5 826.4 288.2 1062.5 708.3 708.3 944.5 944.5 0 0 590.3 590.3 708.3 531.3 767.4 767.4 826.4 826.4 649.3 849.5 694.7 562.6 821.7 560.8 758.3 631 904.2 585.5 720.1 807.4 730.7 1264.5 869.1 841.6 743.3 867.7 906.9 643.4 586.3 662.8 656.2 1054.6 756.4 705.8 763.6 708.3 708.3 708.3 708.3 708.3 649.3 649.3 472.2 472.2 472.2 472.2 531.3 531.3 413.2 413.2 295.1 531.3 531.3 649.3 531.3 295.1 885.4 795.8 885.4 443.6 708.3 708.3 826.4 826.4 472.2 472.2 472.2] endobj 390 0 obj [777.8 277.8 777.8 500 777.8 500 777.8 777.8 777.8 777.8 777.8 777.8 777.8 1000 500 500 777.8 777.8 777.8 777.8 777.8 777.8 777.8 777.8 777.8 777.8 777.8 777.8 1000 1000 777.8 777.8 1000 1000 500 500 1000 1000 1000 777.8 1000 1000 611.1 611.1 1000 1000 1000 777.8 275 1000 666.7 666.7 888.9 888.9 0 0 555.6 555.6 666.7 500 722.2 722.2 777.8 777.8 611.1 798.5 656.8 526.5 771.4 527.8 718.7 594.9 844.5 544.5 677.8 761.9 689.7 1200.9 820.5 796.1 695.6 816.7 847.5 605.6 544.6 625.8 612.8 987.8 713.3 668.3 724.7 666.7 666.7 666.7 666.7 611.1 611.1 444.4 444.4 444.4 444.4 500 500 388.9 388.9 277.8 500 500 611.1 500 277.8 833.3 750 833.3] endobj 391 0 obj [556 556 167 333 611 278 333 333 0 333 564 0 611 444 333 278 0 0 0 0 0 0 0 0 0 0 0 0 0 333 180 250 333 408 500 500 833 778 333 333 333 500 564 250 333 250 278 500 500 500 500 500 500 500 500 500 278 278 564 564 564 444 921 722 667 667 722 611 556 722 722 333 389 722 611 889 722 722 556 722 667 556 611 722 722 944 722 722 611 333 278 333 469 500 333 444 500 444 500 444 333 500 500 278 278 500 278 778 500 500 500 500 333 389 278 500 500 722 500 500 444 480 200 480 541 0 0 0 333 500 444 1000 500 500 333 1000 556 333 889 0 0 0 0 0 0 444 444 350 500 1000 333 980 389 333 722 0 0 722 0 333 500 500 500 500 200 500 333 760 276 500 564 333 760 333 400 564 300 300 333 500 453 250 333 300 310 500 750 750 750 444 722 722 722 722 722 722 889 667 611 611 611 611 333 333 333 333 722 722 722 722 722 722 722 564 722 722 722 722 722 722 556 500 444 444 444 444 444 444 667 444 444 444] endobj 392 0 obj << /Filter /FlateDecode /Length 6891 /Length1 1394 /Length2 5950 /Length3 0 >> stream

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[illegible]

endstream endobj 411 0 obj << /Type /FontDescriptor /Ascent 694 /CapHeight 683 /CharSet (/Delta/Gamma/Omega/a/bracketleft/bracketright/c/circumflex/colon/eight/equal/five/four/l/m/n/nine/o/one/parenleft/parenright/plus/s/semicolon/seven/six/three/tilde/two/x/zero) /Descent -194 /Flags 4 /FontBBox [-40 -250 1009 750] /FontFile 410 0 R /FontName /GRKSOD+CMR10 /ItalicAngle 0 /StemV 69 /XHeight 431 >> endobj 412 0 obj << /Filter /FlateDecode /Length 7242 /Length1 1413 /Length2 6286 /Length3 0 >> stream
endstream endobj 413 0 obj << /Type /FontDescriptor /Ascent 694 /CapHeight 683 /CharSet (/one/three/two) /Descent -194 /Flags 4 /FontBBox [-20 -250 1193 750] /FontFile 412 0 R /FontName /YPSQTS+CMR6 /ItalicAngle 0 /StemV 83 /XHeight 431 >> endobj 414 0 obj << /Filter /FlateDecode /Length 8692 /Length1 1578 /Length2 7639 /Length3 0 >> stream
endobj 416 0 obj << /Filter /FlateDecode /Length 11003 /Length1 1945 /Length2 9774 /Length3 0 >> stream
endstream endobj 417 0 obj << /Type /FontDescriptor /Ascent 750 /CapHeight 683 /CharSet (/J/O/P/T/U/approxequal/arrowdblright/arrowright/asteriskmath/backslash/bar/bardbl/braceleft/braceright/element/equivalence/greaterequal/lessequal/mapsto/minus/multiply/nabla/periodcentered/plusminus/propersubset/propersuperset/universal) /Descent -194 /Flags 4 /FontBBox [-29 -960 1116 775] /FontFile 416 0 R /FontName /YALFEO+CMSY10 /ItalicAngle -14 /StemV 40 /XHeight 431 >> endobj 418 0 obj << /Filter /FlateDecode /Length 7889 /Length1 1463 /Length2 6891 /Length3 0 >> stream

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endstream endobj 421 0 obj << /Type /FontDescriptor /Ascent 750 /CapHeight 683 /CharSet (/asteriskmath/backslash/dagger/daggerdbl/infinity/minus/multiply/section) /Descent -194 /Flags 4 /FontBBox [-30 -955 1185 779] /FontFile 420 0 R /FontName /IFAFIT+CMSY8 /ItalicAngle -14 /StemV 46 /XHeight 431 >> endobj 422 0 obj << /Filter /FlateDecode /Length 2444 /Length1 1342 /Length2 1579 /Length3 0 >> stream
endstream endobj 423 0 obj << /Type /FontDescriptor /Ascent 464 /CapHeight 689 /CharSet (/P/R) /Descent 0 /Flags 4 /FontBBox [-55 -420 2343 920] /FontFile 422 0 R /FontName /NANTFZ+MSBM10 /ItalicAngle 0 /StemV 40 /XHeight 463 >> endobj 424 0 obj << /Filter /FlateDecode /Length 13160 /Length1 1626 /Length2 12318 /Length3 0 >> stream
endstream endobj 425 0 obj << /Type /FontDescriptor /Ascent 690 /CapHeight 690 /CharSet (/A/B/C/D/E/H/I/L/N/O/P/R/S/a/b/c/d/e/f/five/four/g/h/hyphen/i/k/l/m/n/o/one/p/period/r/s/six/t/three/two/u/v/w/x/y/z) /Descent -209 /Flags 4 /FontBBox [-168 -341 1000 960] /FontFile 424 0 R /FontName /RMXPTS+NimbusRomNo9L-Medi /ItalicAngle 0 /StemV 140 /XHeight 461 >> endobj 426 0 obj << /Filter /FlateDecode /Length 19016 /Length1 1630 /Length2 18166 /Length3 0 >> stream
endstream endobj 427 0 obj << /Type /FontDescriptor /Ascent 678 /CapHeight 651 /CharSet (/A/B/C/D/E/F/G/H/I/J/K/L/M/N/O/P/Q/R/S/T/U/V/W/X/Y/Z/a/adieresis/b/braceleft/braceright/bracketleft/bracketright/c/colon/comma/d/e/eacute/eight/endash/f/fi/five/fl/four/g/h/hyphen/i/j/k/l/m/n/nine/numbersign/o/one/p/parenleft/parenright/period/q/quotedblleft/quotedblright/quoteright/r/s/seven/six/slash/t/three/two/u/v/w/x/y/z/zero) /Descent -216 /Flags 4 /FontBBox [-168 -281 1000 924] /FontFile 426 0 R /FontName /ZYWOFK+NimbusRomNo9L-Regu /ItalicAngle 0 /StemV 85 /XHeight 450 >> endobj 428 0 obj << /Filter /FlateDecode /Length 13033 /Length1 1647 /Length2 12182 /Length3 0 >> stream

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65 /A /B /C /D /E /F /G /H /I /J /K /L /M /N /O /P /Q /R /S /T /U /V /W /X /Y /Z /bracketleft 93 /bracketright 97 /a /b /c /d /e /f /g /h /i /j /k /l /m /n /o /p /q /r /s /t /u /v /w /x /y /z /braceleft 125 /braceright 147 /quotedblleft /quotedblright 150 /endash 228 /adieresis 233 /eacute] >> endobj 102 0 obj
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233 /Widths 391 0 R >> endobj 100 0 obj << /Type /Font /Subtype /Type1 /BaseFont /FHKSIJ+NimbusRomNo9L-ReguItal /Encoding 378 0 R /FirstChar 44 /FontDescriptor 429 0 R /LastChar 122 /Widths 379 0 R >> endobj 62 0 obj << /Type /Pages /Count 6 /Kids [46 0 R 70 0 R 97 0 R 119 0 R 131 0 R 148 0 R] /Parent 430 0 R >> endobj
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