



Figure 1 consists of two diagrams illustrating the geometry of the problem. The top diagram shows a cross-section of a river channel with a curved bed. A point 'a' is marked on the bed, and a line segment 'b, 0.0' is shown. The bottom diagram shows a similar cross-section with a point 'a' marked on the bed and a line segment 'b, 0.0' shown.

ΔΑΤΟΜΗ Α.1  
Χωματόειδος (δύο) : 27,5cm

Μέση τιμή αντιστάσεως διατμήσεως  $\sigma_{\text{μεσ}} = 0,62 \text{ N/mm}^2$   
Διαφορετική τάση σε  $z = 0,50 \text{ m}$  είναι  $11,50 \text{ N/mm}^2$

Γραμμή Παράβολο

0,50

ΔΑΤΟΜΗ Σ.7  
Χωματόειδος (δύο) : 27,5cm

Μέση τιμή αντιστάσεως διατμήσεως  $\sigma_{\text{μεσ}} = 0,62 \text{ N/mm}^2$   
Διαφορετική τάση σε  $z = 0,50 \text{ m}$  είναι  $11,50 \text{ N/mm}^2$

Γραμμή Παράβολο

0,50

Fig.2

z (m)	σ <sub>1</sub> (N/mm <sup>2</sup> )	σ <sub>2</sub> (N/mm <sup>2</sup> )	σ <sub>3</sub> (N/mm <sup>2</sup> )	σ <sub>4</sub> (N/mm <sup>2</sup> )	σ <sub>5</sub> (N/mm <sup>2</sup> )	σ <sub>6</sub> (N/mm <sup>2</sup> )	σ <sub>7</sub> (N/mm <sup>2</sup> )	σ <sub>8</sub> (N/mm <sup>2</sup> )	σ <sub>9</sub> (N/mm <sup>2</sup> )	σ <sub>10</sub> (N/mm <sup>2</sup> )	σ <sub>11</sub> (N/mm <sup>2</sup> )	σ <sub>12</sub> (N/mm <sup>2</sup> )	σ <sub>13</sub> (N/mm <sup>2</sup> )	σ <sub>14</sub> (N/mm <sup>2</sup> )	σ <sub>15</sub> (N/mm <sup>2</sup> )	σ <sub>16</sub> (N/mm <sup>2</sup> )	σ <sub>17</sub> (N/mm <sup>2</sup> )	σ <sub>18</sub> (N/mm <sup>2</sup> )	σ <sub>19</sub> (N/mm <sup>2</sup> )	σ <sub>20</sub> (N/mm <sup>2</sup> )	σ <sub>21</sub> (N/mm <sup>2</sup> )	σ <sub>22</sub> (N/mm <sup>2</sup> )	σ <sub>23</sub> (N/mm <sup>2</sup> )	σ <sub>24</sub> (N/mm <sup>2</sup> )	σ <sub>25</sub> (N/mm <sup>2</sup> )	σ <sub>26</sub> (N/mm <sup>2</sup> )	σ <sub>27</sub> (N/mm <sup>2</sup> )	σ <sub>28</sub> (N/mm <sup>2</sup> )	σ <sub>29</sub> (N/mm <sup>2</sup> )	σ <sub>30</sub> (N/mm <sup>2</sup> )	σ <sub>31</sub> (N/mm <sup>2</sup> )	σ <sub>32</sub> (N/mm <sup>2</sup> )	σ <sub>33</sub> (N/mm <sup>2</sup> )	σ <sub>34</sub> (N/mm <sup>2</sup> )	σ <sub>35</sub> (N/mm <sup>2</sup> )	σ <sub>36</sub> (N/mm <sup>2</sup> )	σ <sub>37</sub> (N/mm <sup>2</sup> )	σ <sub>38</sub> (N/mm <sup>2</sup> )	σ <sub>39</sub> (N/mm <sup>2</sup> )	σ <sub>40</sub> (N/mm <sup>2</sup> )	σ <sub>41</sub> (N/mm <sup>2</sup> )	σ <sub>42</sub> (N/mm <sup>2</sup> )	σ <sub>43</sub> (N/mm <sup>2</sup> )	σ <sub>44</sub> (N/mm <sup>2</sup> )	σ <sub>45</sub> (N/mm <sup>2</sup> )	σ <sub>46</sub> (N/mm <sup>2</sup> )	σ <sub>47</sub> (N/mm <sup>2</sup> )	σ <sub>48</sub> (N/mm <sup>2</sup> )	σ <sub>49</sub> (N/mm <sup>2</sup> )	σ <sub>50</sub> (N/mm <sup>2</sup> )	σ <sub>51</sub> (N/mm <sup>2</sup> )	σ <sub>52</sub> (N/mm <sup>2</sup> )	σ <sub>53</sub> (N/mm <sup>2</sup> )	σ <sub>54</sub> (N/mm <sup>2</sup> )	σ <sub>55</sub> (N/mm <sup>2</sup> )	σ <sub>56</sub> (N/mm <sup>2</sup> )	σ <sub>57</sub> (N/mm <sup>2</sup> )	σ <sub>58</sub> (N/mm <sup>2</sup> )	σ <sub>59</sub> (N/mm <sup>2</sup> )	σ <sub>60</sub> (N/mm <sup>2</sup> )	σ <sub>61</sub> (N/mm <sup>2</sup> )	σ <sub>62</sub> (N/mm <sup>2</sup> )	σ <sub>63</sub> (N/mm <sup>2</sup> )	σ <sub>64</sub> (N/mm <sup>2</sup> )	σ <sub>65</sub> (N/mm <sup>2</sup> )	σ <sub>66</sub> (N/mm <sup>2</sup> )	σ <sub>67</sub> (N/mm <sup>2</sup> )	σ <sub>68</sub> (N/mm <sup>2</sup> )	σ <sub>69</sub> (N/mm <sup>2</sup> )	σ <sub>70</sub> (N/mm <sup>2</sup> )	σ <sub>71</sub> (N/mm <sup>2</sup> )	σ <sub>72</sub> (N/mm <sup>2</sup> )	σ <sub>73</sub> (N/mm <sup>2</sup> )	σ <sub>74</sub> (N/mm <sup>2</sup> )	σ <sub>75</sub> (N/mm <sup>2</sup> )	σ <sub>76</sub> (N/mm <sup>2</sup> )	σ <sub>77</sub> (N/mm <sup>2</sup> )	σ <sub>78</sub> (N/mm <sup>2</sup> )	σ <sub>79</sub> (N/mm <sup>2</sup> )	σ <sub>80</sub> (N/mm <sup>2</sup> )	σ <sub>81</sub> (N/mm <sup>2</sup> )	σ <sub>82</sub> (N/mm <sup>2</sup> )	σ <sub>83</sub> (N/mm <sup>2</sup> )	σ <sub>84</sub> (N/mm <sup>2</sup> )	σ <sub>85</sub> (N/mm <sup>2</sup> )	σ <sub>86</sub> (N/mm <sup>2</sup> )	σ <sub>87</sub> (N/mm <sup>2</sup> )	σ <sub>88</sub> (N/mm <sup>2</sup> )	σ <sub>89</sub> (N/mm <sup>2</sup> )	σ <sub>90</sub> (N/mm <sup>2</sup> )	σ <sub>91</sub> (N/mm <sup>2</sup> )	σ <sub>92</sub> (N/mm <sup>2</sup> )	σ <sub>93</sub> (N/mm <sup>2</sup> )	σ <sub>94</sub> (N/mm <sup>2</sup> )	σ <sub>95</sub> (N/mm <sup>2</sup> )	σ <sub>96</sub> (N/mm <sup>2</sup> )	σ <sub>97</sub> (N/mm <sup>2</sup> )	σ <sub>98</sub> (N/mm <sup>2</sup> )	σ <sub>99</sub> (N/mm <sup>2</sup> )	σ <sub>100</sub> (N/mm <sup>2</sup> )	σ <sub>101</sub> (N/mm <sup>2</sup> )	σ <sub>102</sub> (N/mm <sup>2</sup> )	σ <sub>103</sub> (N/mm <sup>2</sup> )	σ <sub>104</sub> (N/mm <sup>2</sup> )	σ <sub>105</sub> (N/mm <sup>2</sup> )	σ <sub>106</sub> (N/mm <sup>2</sup> )	σ <sub>107</sub> (N/mm <sup>2</sup> )	σ <sub>108</sub> (N/mm <sup>2</sup> )	σ <sub>109</sub> (N/mm <sup>2</sup> )	σ <sub>110</sub> (N/mm <sup>2</sup> )	σ <sub>111</sub> (N/mm <sup>2</sup> )	σ <sub>112</sub> (N/mm <sup>2</sup> )	σ <sub>113</sub> (N/mm <sup>2</sup> )	σ <sub>114</sub> (N/mm <sup>2</sup> )	σ <sub>115</sub> (N/mm <sup>2</sup> )	σ <sub>116</sub> (N/mm <sup>2</sup> )	σ <sub>117</sub> (N/mm <sup>2</sup> )	σ <sub>118</sub> (N/mm <sup>2</sup> )	σ <sub>119</sub> (N/mm <sup>2</sup> )	σ <sub>120</sub> (N/mm <sup>2</sup> )	σ <sub>121</sub> (N/mm <sup>2</sup> )	σ <sub>122</sub> (N/mm <sup>2</sup> )	σ <sub>123</sub> (N/mm <sup>2</sup> )	σ <sub>124</sub> (N/mm <sup>2</sup> )	σ <sub>125</sub> (N/mm <sup>2</sup> )	σ <sub>126</sub> (N/mm <sup>2</sup> )	σ <sub>127</sub> (N/mm <sup>2</sup> )	σ <sub>128</sub> (N/mm <sup>2</sup> )	σ <sub>129</sub> (N/mm <sup>2</sup> )	σ <sub>130</sub> (N/mm <sup>2</sup> )	σ <sub>131</sub> (N/mm <sup>2</sup> )	σ <sub>132</sub> (N/mm <sup>2</sup> )	σ <sub>133</sub> (N/mm <sup>2</sup> )	σ <sub>134</sub> (N/mm <sup>2</sup> )	σ <sub>135</sub> (N/mm <sup>2</sup> )	σ <sub>136</sub> (N/mm <sup>2</sup> )	σ <sub>137</sub> (N/mm <sup>2</sup> )	σ <sub>138</sub> (N/mm <sup>2</sup> )	σ <sub>139</sub> (N/mm <sup>2</sup> )	σ <sub>140</sub> (N/mm <sup>2</sup> )	σ <sub>141</sub> (N/mm <sup>2</sup> )	σ <sub>142</sub> (N/mm <sup>2</sup> )	σ <sub>143</sub> (N/mm <sup>2</sup> )	σ <sub>144</sub> (N/mm <sup>2</sup> )	σ <sub>145</sub> (N/mm <sup>2</sup> )	σ <sub>146</sub> (N/mm <sup>2</sup> )	σ <sub>147</sub> (N/mm <sup>2</sup> )	σ <sub>148</sub> (N/mm <sup>2</sup> )	σ <sub>149</sub> (N/mm <sup>2</sup> )	σ <sub>150</sub> (N/mm <sup>2</sup> )	σ <sub>151</sub> (N/mm <sup>2</sup> )	σ <sub>152</sub> (N/mm <sup>2</sup> )	σ <sub>153</sub> (N/mm <sup>2</sup> )	σ <sub>154</sub> (N/mm <sup>2</sup> )	σ <sub>155</sub> (N/mm <sup>2</sup> )	σ<
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