Lampiran 1. Simulasi densitas frekuensi gelombang dengan pembangkitan bilangan acak

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Analisis Spektrum Gelombang Laut
Lampiran 2. Spektrum Pierson Moskowitz

Spektrum Pierson Moskowitz dengan fungsi kerapatan spektral :

\[ S(f) = C_{pm} g^2 (2\pi)^4 f^5 \exp[-\beta (f_0/f)^4] \]

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<tr>
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<th>( S(f) ) untuk U=15 m/s</th>
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\( \beta = 0.163, f_0 = 0.0001, \) C_{pm} = 0.25, \( g = 9.81 \text{ m/s}^2 \)
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Lampiran 3. Spektrum Generalized Pierson Moskowitz

Spektrum Generalized Pierson Moskowitz dengan fungsi kerapatan spektral:

\[ S(f) = A f^5 \exp[-B f^4] \]

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Analisis Spektrum Belambang Laut
Lampiran 4. Spektrum JONSWAP

Spektrum JONSWAP dengan fungsi kerapatan spektral:

\[ S(f) = G(f) \cdot \alpha \cdot g^2 \cdot (2\pi)^4 \cdot f^5 \cdot \exp[-(5/4) \cdot (f_m/f)^4] \]

1. Untuk kecepatan angin 20 m/s

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Lampiran 5. Spektrum Phillips

Spektrum Phillips dengan fungsi kerapatan spektral :

\[
S(f) = \alpha \cdot g^2 \cdot (2\pi)^2 \cdot f^5 \quad \text{untuk } f > f_0
\]

\[= 0 \quad \text{untuk } f < f_0\]

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Lampiran 7. Iterasi Untuk Mencari Panjang Gelombang dengan FORTRAN 77

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C PROGRAM UNTUK MENGHITUNG PANJANG GELOMBANG

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DATA D(1)/5./
G=9.81
E=2.718281828
PI=3.141592654
I=0
T=8.62069
N=1

DO 10 J=1,N

AL0=1.56*T**2
AL2=AL0

2 AL1=G*T**2*TANH(2.*PI*D(J)/AL2)/(2.*PI) I=I+1
WRITE(*,'(3X,I4,F9.2)')I,AL1
IF(ABS(AL1-AL2).LE.0.01)GOTO 3
AL2=(AL1+AL2)/2.
GOTO 2

C C=AL1/T

3 WRITE(*,'(3X,I4,F9.2)')I,AL1 I=0

10 CONTINUE
STOP
END
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Lampiran 8. Uji Kolmogorov Smirnov Untuk Kebaikan Suai U[0,1]

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UJI KOLMOGOROV SMIRNOV UNTUK DISTRIBUSI U[0,1]

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Analisis Spektrum Delombang Laut
Lampiran 9. Nilai kritis dari D dalam uji Kolmogorov Smirnov

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Nilai kritis untuk n > 40:

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Sumber: Tabel ini disarkan dari "Table of percentage points of Kolmogorov statistic," J. Amer. Statist. Assoc., 51: 111 – 121 (1956), and ini pengarang L.H. Miller, dan editer.
Lampiran 10. Data Maksimum Kecepatan Angin di Pantai Utara Pulau Jawa

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Sumber: Badan Meteorologi dan Geofisika Semarang