

DAFTAR ISI

LEMBAR PENGESAHAN	iii
PERNYATAAN KEASLIAN KARYA ILMIAH.....	iv
HALAMAN PERSEMBAHAN	v
PRAKATA	vi
RINGKASAN	vii
ABSTRACT	viii
DAFTAR ISI	ix
DAFTAR GAMBAR	xi
DAFTAR TABEL	xiv
DAFTAR LAMPIRAN	xv
BAB I. PENDAHULUAN	1
I.1. Latar Belakang	1
I.2. Maksud dan Tujuan Penelitian	2
I.3. Batasan Permasalahan	2
I.4. Metodologi	3
I.5. Sistematika Penulisan	3
BAB II. TINJAUAN PUSTAKA	7
II.1. Simulasi Reservoir	7
II.1.1. Persiapan Data	7
II.1.2. Pengolahan Data	9
II.1.3. Input Data.....	10
II.1.5. Inisialisasi.....	10
II.1.6. <i>History Matching</i>	11
II.2. Assisted <i>History Matching</i>	12
II.2.1. <i>Experimental design</i>	13
II.2.2. <i>Objective Function</i>	14
II.2.3. <i>Realization</i>	15
II.2.4. <i>Parameterization</i>	16
II.2.5. <i>Particle Swarm Optimization</i>	16

DAFTAR ISI (*Lanjutan*)

BAB III ASSISTED HISTORY MATCHING DENGAN PARTICLE SWARM OPTIMIZATION PADA LAPANGAN “SHM”	18
III.I. Persiapan Data	18
III.1.1. Data Karakteristik Reservoir.....	18
III.1.2. Kondisi Reservoir.....	24
III.1.3. Sejarah Produksi	25
III.1.4. Data <i>Inplace</i> dan Inisialisasi	27
III.2. <i>Assisted History Matching</i>	27
III.2.1. Data Lapangan “SHM”	28
III.2.2. <i>Uncertainty Parameter</i>	30
III.2.3. <i>Experimental Design</i>	32
III.2.4. <i>Objective Function</i>	36
III.2.5. <i>Realization</i>	37
III.2.6. <i>Parameterization</i>	39
III.2.7. <i>Particle Swarm Optimization</i>	42
BAB V. PEMBAHASAN	51
BAB VI. KESIMPULAN.....	57
DAFTAR PUSTAKA	58
LAMPIRAN.....	60