Advancement in UV-Visible-IR Camouflage Textiles & Camouflage Physics

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Optical theory of Camouflage engineering has been invented for defence protection. This optical theory can be implemented by defence scientists to explore camouflage products and multidimensional branches of optical technologies. Advancement in ultraviolet-visible-near infrared (UV-Vis-IR) camouflage engineering has been designed for defence protection. Camouflage physics has been explained through camouflage textiles and camouflage materials. This technique of camouflage engineering can be explored to defence technology for the design and manufacturing of combat product against multidimensional combat backgrounds such as dry leaves, green leaves, tree bark-woodland combat background; water-marine combat background; sand-desertland combat background; stone-stoneland combat background; snow-snowland combat background; sky combat background; ice-iceland combat background and concrete-concreteland combat background (DGTWSICB). This is a novel addition of camouflage technology for the engineering progress of camouflage product design. Hence, camouflage engineering has been briefly reported by "*Anowar Hossain's invention of camouflage physics at PhD School, first version submitted to Nobel committee for Nobel nomination in 2023 under affiliation of RMIT University*". *http://dx.doi.org/10.13140/RG.2.2.29936.23048* (http://dx.doi.org/10.13140/RG.2.2.29936.23048), *https://doi.org/10.5281/zenodo.8286832* (https://doi.org/10.5281/zenodo.8286832)

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Introduction

Camouflage is a deceiving technique to conceal the target signature in terms of chromatic blending between target signature and combat backgrounds. Camouflage technique is an optical defense against modern surveillance in UV-Vis-IR spectrums. Chromatic and optical blending between target signature and combat backgrounds confuse the defence target for protection of opposition team. Camouflage textiles is an applied branch for optical concealing against multidimensional combat backgrounds, DGTWSICB. Every concealing ability depends on chromatic, achromatic and optical symmetry between target signature and combat backgrounds. Extended spectrums and multidimensional combat backgrounds have been focused in terms of optical theory and electron theory for concealing ability. Furthermore, an applied branch of camouflage engineering has been deeply focused through camouflage textiles. Hence material design and method design, experimentation, laboratory trialling and field trialling for camouflage product design have been extended in UV-Vis-IR spectrums. A brief statement of invention has also been designed by "Anowar Hossain's invention of camouflage physics at PhD School, first version submitted to Nobel committee for Nobel nomination in 2023 under affiliation of RMIT University". *http://dx.doi.org/10.13140/RG.2.2.29936.23048*, https://doi.org/10.5281/zenodo.8286832

Motivation for the development of camouflage engineering for defence protection

Surveillance technologies are being developed and developed in extended electromagnetic spectrums in UV-Vis-NIR. Still now, research & development of camouflage engineering is very limited for international platform of defence technologies. There is enormous limitation of camouflage technologies to fulfil the current requirements of camouflage product design against multidimensional CBs, DGTWSICB. It is very crucial that every product design & material design of defence technology need to consider for camouflage engineering. Addition of hyperspectral camera in UV-Vis-IR spectrums is also challenging fact for defence protection and right design of camouflage product.

Illumination principle and camouflage physics for concealment, detection, recognition and identification (CDRI) of target signature in UV-Vis-IR against multidimensional CBs-DGTWSICB

Variations of spectrums in UV-Vis-IR between target signature and combat background explained through Equ. 1-7. CDRI principle has been illustrated according to established theory of wavelength-reflection-electron energy-photonic signal such as Einstein theory of energy [1], Broglie relation of wavelength [2] [3], Snell's law of reflection [4, 5] and photon energy of Max Planck [6]. Illumination in the form of energy creates photonic signal for surveillance and imaging of target signature against multidimensional CBs-DGTWSICB. Camouflage physics relates to optical mechanism between target signature and combat background. Camouflage engineering and color engineering plays the optical deviations of CDRI in the vein of wavelength-reflection-electron energy-photonic signal. Optical physics of camouflage acts for four stage optical response to imaging device for CDRI which are signified in below.

Ø First stage of optical response to imaging device for CDRI

Temperature deviation between target signature and combat background denotes camouflage engineering for CDRI. Color engineering versus temperature represents chromatic response to imaging device for CDRI.

Ø Second stage of optical response to imaging device for CDRI

Electron energy deviation between target signature and combat background represents camouflage engineering for CDRI. Color engineering versus electron energy epitomizes chromatic response to imaging device for CDRI.

Ø Third stage of optical response to imaging device for CDRI

Variations of reflection between target signature and combat background denotes camouflage engineering for CDRI. Color engineering versus reflection mechanism signifies chromatic response to imaging device for CDRI.

Ø Fourth stage of optical response to imaging device for CDRI

Variations of photonic signal between target signature and combat background relates to camouflage engineering for CDRI. Color engineering versus photonic signal generates chromatic response to imaging device of hyperspectral camera or digital camera.

1.1 Principle of optical engineering for CDRI in UV-Vis-IR spectrums

From Eq. 1 and 2, we can find the difference between the angular momentum of target signature and CB materials-DGTWSICB for CDRI of target signature.

$$\lambda = h/P = h/mv\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots Eq.\,1$$

Where, λ = wavelength of electron; Planck's constant, h = 6.6 × 10^{-34} kgm^2/s; P is the momentum of target CB materials or target signature, the P value manipulates the value of λ in UV-Vis-IR and chromatic appearance of target signature or target CB materials; m = mass of electron of target signature; and v = velocity of electron. By putting the value of h, m, and v in eq. 1, we can signify the wavelength. Wavelength in UV-Vis-IR spectrums controls spectral frequency-electron energy-photonic signal for chromatic and achromatic appearance/digital imaging/hyperspectral imaging of target signature against CB materials-DGTWSICB.

$$P = (mv)/\surd(1 - V^2/c^2)\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots Eq.\,2$$

Where, P is the electron angular momentum of target signature; m is the mass of electron of target signature; v is the velocity of electron of target signature; and c is the velocity of the light. By putting the value of m, v, c; we can find the angular momentum of target signature at different CB locations.

1.2 Optical principle of refractive index and reflection for CDRI in UV-Vis-IR spectrums

By putting the value of i and r in Eq. 3, we can find the refractive index of target CB and target signature.

$$n = Sin(i)/Sin(r)\ldots\ldots\ldots\ldots\ldots\ldots\ldots Eq.\,3$$

Where, i is the angle of incidence and r is the angle of refraction.

From Eq. 3, the difference of angle of refraction (Δn) for CDRI can be determined using Eq. 4,

$$\Delta n = n1 - n2\ldots\ldots\ldots\ldots\ldots\ldots\ldots Eq.\,4$$

Where, n_1 and n_2 are the refractive index of target CB and target signature. By putting the value of n_1 and n_2, we can signify CDRI of target signature against surrounding background in UV-Vis-IR. The value of n_2 will be almost zero or infinitive when the target signature will be high reflective or zero reflectance; hence the target will be concealed against CB. The minimum/maximum value will identify CDRI of target signature against CB.

Spectral and imaging signal of CDRI depends on velocity of light. From Eq. 5, the difference of velocity of light between CB and target materials for CDRI can be determined.

$$\Delta v = c/n1 - c/n2 \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots Eq.5$$

Where, c is the constant speed of light; c/n_1 determines the velocity of light of CB materials, and n_1 is the value of refractive index of CB materials; c/n_2 determines the velocity of light of target signature and n_2 is the value of refractive index of target signature.

1.3 Optical principle of electron energy and photon signal for CDRI in UV-Vis-IR spectrums

By determining the energy of photon signal of target CB and target signature, we can indicate CDRI of target signature against surrounding CB in UV-Vis-IR spectrums. When the difference of electron state between target signature and target CB nearest of zero or infinitive, the photon signal will follow the energy response to the camera sensor for imaging and spectral frequency of target OB. Therefore, the target signature will be concealed/confused against background materials, CBs-DGTWSICB. The higher energy difference for target CDRI, ΔE, as shown in Eq. 6 will signify the higher number of photons to the camera sensor for detection, recognition, and identification, respectively.

$$\Delta E = hc1/\lambda – hc2/\lambda \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots Eq.6$$

Where, Planck's constant, $h = 6.6 \times 10^{-34}$ kgm^2/s; λ is the wavelength of electron; the term h c_1/λ determines the energy of photon signal of target CB materials, and c_1 is the velocity of the light for imaging of CB materials; the term h c_2/λ determines the energy of photon signal of target signature, and c_2 is the velocity of light for imaging of target signature.

1.4 Optical principle of spectral reflectance for CDRI in UV-Vis-IR spectrums

If target signature shows zero reflection, the electron energy of photon signal states at the rest position of acceleration. At rest position of electron is considered for a target signature of zero reflection materials; and a voltage difference is considered as V volts. The wavelength for identifying CDRI can be determined by using De Broglie equation of wavelength.

$$\lambda = h/P = h/mv = h/\sqrt{2meV} = \frac{6.6 \times 10^{-34}}{\sqrt{2 \times 9 \times 10^{-31} \times 1.6 \times 10^{-19} \times V}} \ldots\ldots\ldots\ldots\ldots\ldots\ldots Eq.\ 7$$

Where, Planck's constant, $h = 6.6 \times 10^{-34}$ kgm^2/s; constant mass of electron, $m = 9.1 \times 10^{-31}$ kg; constant electron charge, $e = 1.6 \times 10^{-19}$ C; v is the velocity of electron energy carried by photon for creation of imaging signal.

For low reflection/zero reflection materials, electron velocity (v) will be almost zero; and for high reflection materials the electron velocity (v) will be infinitive. Therefore, spectral signal will not be detected for the chromatic appearance and the target signature will be denoted as concealed. Accordingly, detection, recognition, and identification of target signature will be signified by the specific value of velocity of electron energy.

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